Asbestos and Lead-Based Paint Survey Report

1690 Turnbull Avenue
Old Hosptial
North Charleston, South Carolina
February 20, 2019
Terracon Project No. EN197470



Prepared for:

Palmetto Railways Charleston, South Carolina

Prepared by:

Terracon Consultants, Inc. North Charleston, South Carolina

Inspected by:

Andrew Mitroka (SC-ASB-01871) Craig C. Langford (SC ASB-22775)





February 20, 2020

Palmetto Railways 540 East Bay Street Charleston, South Carolina 29403

Attn: Alec Thompson Phone: (843) 737-8440

Email: athompson@palmettorail.com

Re: Asbestos and Lead-Based Paint Survey Report

Old Hospital

North Charleston, South Carolina Terracon Project No. EN197470

Dear Mr. Thompson:

Terracon Consultants, Inc. (Terracon) is pleased to present the results of the asbestos and lead-based paint survey performed January 23 and 24, and February 18, 2020, of the building located at 1690 Turnbull Avenue, North Charleston, South Carolina. We understand that this survey was requested due to the planned renovation of the building.

Terracon appreciates the opportunity to provide environmental consulting services. If you should have any questions regarding this report, or if you need assistance with bid documents or project oversight during the building renovation, please contact the undersigned at (843) 277-8402.

Sincerely,

Terracon Consultants, Inc.

Andrew Mitroka Field Scientist

Craig C. Langford, OHST

Senior Industrial Hygienist

Warle a Very for Jeffrey A. Gurrie, CIH

Authorized Project Reviewer



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EXECUTIVE SUMMARY

This executive summary is intended as an overview for the convenience of the reader. The report should be reviewed in its entirety prior to making any decisions regarding this site.

Terracon Consultants, Inc. (Terracon) conducted an asbestos and lead-based paint survey for the renovation of a 250,000 ft² building located at 1690 Turnbull Avenue in North Charleston, South Carolina. It was our understanding that Palmetto Rail plans to renovate the building. The purpose of this survey was to sample and identify suspect asbestos-containing materials (ACM) and provide information regarding the identity, location, condition and approximate quantities of ACM in interior and exterior building components.

The survey was performed on January 23 and 24, and February 18, 2020, by a South Carolina Department of Health and Environmental Control (SCDHEC) licensed asbestos inspector in general accordance with our proposal dated December 18, 2019 and the sampling protocols established in EPA 40 CFR 763 (Asbestos Hazard Emergency Response Act, AHERA) and the SCDHEC Regulation 61-86.1 Standards of Performance for Asbestos Projects.

Two-hundred and forty-three (243) bulk samples were collected from sixty-four (64) homogeneous areas of suspect ACM. Based on the results of laboratory analysis, the following suspect materials were identified as asbestos-containing materials (ACMs) defined as containing >1% asbestos:

- Friable joint compound (Chrysotile, 2%) associated with the wallboard system located on the first and second floor; approximately 150,000 ft²
- Non-friable sheet flooring (Chrysotile, 12-15%) associated with the hallway surrounding the courtyard on the second floor; approximately 21,000 ft²
- Non-friable 12"x12" gray floor tile (Chrysotile, 8%-10%) located in the 3rd wing on the second floor; approximately 2,500 ft²
- Non-friable 12"x12" tan floor tile (Chrysotile, 2%-4%) and associated black mastic (Chrysotile, 6% Chrysotile) located on the first floor (basement); approximately 7,500 ft²
- Non-friable 9"x9" green floor tile (Chrysotile, 3%-4%) associated with the flooring on the first floor (basement); approximately 7,500 ft²
- Friable pipe insulation (Amosite, 2%-8%; Chrysotile, 30%-35%) associated with the piping of the first floor (basement); approximately 1,200 linear feet
- Friable pipe debris (Amosite, 20%; Chrysotile, 10%) associated with the entire first floor (basement); approximately 30,000 ft²
- Friable pipe elbow (Amosite, 2%) associated with exterior boiler room 1; 1 Elbow
- Friable door gasket (Chrysotile, 60%) associated with exterior boiler room 1 boiler door; approximately 20 linear feet.

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- Pipe Insulation (10% Amosite; 4% Chrysotile) associated with the debris located on the second floor building entrance; approximately 2,500 ft²
- Floor tile and mastics (4-6% Chrysotile) associated with beige floor tile and black bottom layer mastic located in the 2nd wing on the second floor; approximately 2,500 ft²
- Floor tile (8% Chrysotile) associated with the beige floor tile located in the 1st wing on the second floor; approximately 2,500 ft²
- Floor Tile (8% Chrysotile) associated with the beige floor tile located in the 8th wing on the second floor; approximately 2,500 ft²
- Sheet Flooring (15% Chrysotile) associated with the red/orange sheet flooring located in the 9th wing on the second floor; approximately 2,500 ft²
- Transite Siding (15% Chrysotile) associated with the siding of the connecting bridges between 2nd, 3rd, and 4th wings on the second floor; approximately 3,000 ft²
- Black floor tile mastic (3% Chrysotile) associated with the red floor tile located in the 7th wing entrance on the second floor; approximately 1,500 ft²
- Floor tile (8% chrysotile) associated with the beige floor tile located on west end of the 7th wing on the second floor; approximately 1,500 ft²

The following materials contained <1% asbestos

- Friable sheet flooring mastic (0.58% Chrysotile) associated with the sheet flooring in the hallway surrounding the courtyard; approximately 21,000 ft²
- Green floor tile mastic (0.56% Chrysotile) associated with 12' floor tile located in the 1st wing on the second floor; approximately 2,500 ft²
- Black floor tile mastic (0.68% Chrysotile) associated with 12' floor tile located in the 1st wing on the second floor; approximately 1,500 ft²
- Orange carpet mastic (0.58% Chrysotile) associated with the carpet located in the 3rd wing on the second floor; approximately 5,000 ft²
- Tan and black floor tile mastic (0.69% Chrysotile, <1% Chrysotile) associated with 12' gray floor tile located in the 3rd wing on the second floor; approximately 2,500 ft²
- Floor tile mastic (0.27% Chrysotile) associated with 9' green floor tile located on the first floor; approximately 1,200 ft²
- Brown carpet mastic (0.61% Chrysotile) associated with the carpet located in the 4th wing on the second floor; approximately 2,500 ft²
- Floor Tile Mastic (.50% Chrysotile) associated with the black and white floor tile located in the 4th wing on the second floor; approximately 2,500 ft²



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- Floor Tile Mastic (.59% Chrysotile) associated with the beige floor tile located in the 8th wing on the second floor; approximately 2,500 ft²
- Sheet flooring mastic (.79% Chrysotile) associated with the red/orange sheet flooring located in the 9th wing on the second floor; approximately 2,500 ft²
- Floor mastic (.44% Chrysotile) associated with the gray floor tile in the 7th wing on the second floor; approximately 1,500 ft²

Twelve (12) paint-chip samples were collected from the components of the structure on the site. Three (3) sample results were above the EPA definition of lead paint of 0.5%. Eleven (11) samples were above the SCDHEC 0.06% by weight threshold for disposal. All paints should be considered lead-containing.

ASBESTOS AND LEAD-BASED PAINT SURVEY REPORT

OLD HOSPITAL 1690 TURNBULL AVENUE CHARLESTON SOUTH CAROLINA

NORTH CHARLESTON, SOUTH CAROLINA PROJECT NO. EN197470

INSPECTION DATE: January 23 and 24, 2020 REPORT DATE: February 20, 2020

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) conducted an asbestos and lead-based paint survey of building materials of the building located at 1690 Turnbull Avenue, North Charleston, South Carolina. The survey was conducted on January 23 and 24, and February 18, 2020, by a South Carolina Department of Health and Environmental Control (SCDHEC) licensed building inspector in general accordance with our Proposal No PEN197470Rev1 dated December 18, 2019. The purpose of this survey was to sample and identify suspect asbestos-containing materials (ACM) and provide information regarding the identity, location, condition and approximate quantities of ACM in interior and exterior building components.

Terracon understands that the building will be renovated. Environmental Protection Agency (EPA) regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), prohibits the release of asbestos fibers to the atmosphere during renovation/demolition activities. NESHAP and SCDHEC requires that potentially regulated asbestos-containing building materials be identified, classified and quantified prior to planned disturbances or demolition activities.

Suspect ACM was sampled in general accordance with the sampling protocols outlined in EPA Regulation 40 CFR 763 Subpart E763.86 (Asbestos Hazard Emergency Response Act, AHERA) and SCDHEC Regulation 61-86.1 Standards of Performance for Asbestos Projects. Interior building components were surveyed and homogeneous areas of suspect asbestos-containing materials (ACM) were visually identified and documented. Although reasonable effort was made to survey accessible suspect materials, additional suspect but un-sampled materials could be located in walls, in voids or in other concealed areas. Samples were delivered to an accredited laboratory for analysis by Polarized Light Microscopy (PLM) and Transmission Electron Microscopy (TEM), as required.

Paint sampling on representative paints was performed to determine lead content. Knowledge of lead content in paint assists with waste determination and potential employee exposure if disturbed. Lead is regulated by the EPA, SCDHEC and OSHA. The EPA and SCDHEC regulate lead use, removal, and disposal, and OSHA regulates lead exposure to workers. The EPA defines LBP as paint, varnish, stain, or other applied coating that contains lead equal to or greater than 1.0 mg/cm², 5,000 mg/kg, or 0.5% by dry weight as determined by laboratory analysis. The SCDHEC

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regulations 61-107.19 require that painted demolition debris with a lead concentration greater than 0.06% by weight be disposed in a permitted Class II landfill. For the purpose of the OSHA lead standard, lead includes metallic lead, all inorganic lead compounds, and organic lead soaps. The complete OSHA standard for compliance can be found on OSHA's website (www.osha.gov). A synopsis of the OSHA regulations (29 CFR 1926.62) and the applicability are as follows:

2.0 BUILDING DESCRIPTION

The building is an approximately 250,000 ft² structure. The site consists of a three-story former hospital building. The structure is in dilapidated condition, particularly the west portions of the 1st and 2nd floor, and the south entrance of the 2nd floor. Interior finishes consist of plaster wall and ceilings, wallboard system, wall paneling, lay-in ceiling tiles panels, carpeting (floor tile under carpet), floor tile/mastic, and sheet flooring. The building was formerly heated and cooled by a boiler system. Two boiler rooms are located on the north exterior side of the building.

The building consists of eight wings branching off a main hallway that surrounds a courtyard. The wings consisted of various rooms and hospital uses, mostly offices and conferences rooms. 1st floor wings along the west side of the building were too damaged to access or sample. The north portion of the 1st floor consists of a mechanical room, storage area, and interior boiler room. The north portion of the 2nd floor consist of a main room, and other offices. The 3rd floor is located on the south side of the building.

The roof consists of wood pitched frame with rolled felt and terracotta shingles. Two connecting hallway bridges were located between the 2nd, 3rd, and 4th wings on the second floor. These structures consisted of transite siding over rolled felt, with a metal pitched roof. The interior of these structures were inaccessible.

Non-suspect ACMs include fiberglass insulation, fiberglass pipe insulation, foam glass pipe insulation, rubber/silicon caulking.

Suspect identified ACMs sampled were:

- Wallboard systems (drywall and joint compound)
- Plaster Rough Coat
- Plaster Skim Coat
- Carpet mastic
- Ceiling Tiles
- Floor Tile/Mastic
- Roofing Felt
- Baseboard Mastic

- Window Caulking and Glazing
- 1st Floor Debris
- Door Gasket
- Fire Door
- Acoustic Tiles and Mastic
- Sheet Flooring
- Pipe Insulation and Wrapping
- Transite Siding and Felt

3.0 ASBESTOS SURVEY

The asbestos survey was conducted by SCDHEC licensed Asbestos Building Inspector(s) Mr. Craig C. Langford (License No. ASB-22775 Exp. 07/09/20) and Mr. Andrew Mitroka (License No. ASB-01871 Exp. 07/16/20). A copy of Mr. Langford's and Mr. Mitroka's license is included in Appendix D. The survey was conducted on January 24, 2020, in general accordance with the sampling protocols established by EPA Regulation 40 CFR 763 Subpart E 763.86, AHERA and SCDHEC R. 61-86.1. A summary of survey activities is provided below.

3.1 Regulatory Overview

An ACM is defined as any material containing asbestos of any type in an amount greater than one percent (1%). The asbestos NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. It also requires the identification and classification of existing building materials prior to demolition or renovation activity. Under NESHAP, asbestos-containing building materials are classified as either friable, Category I non-friable or Category II non-friable ACM. Friable materials are those that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure. Category I non-friable ACM includes packing materials, gaskets, resilient floor coverings and asphalt roofing products containing more than 1 percent (%) asbestos. Category II non-friable ACM are non-friable materials other than Category I materials that contain more than 1% asbestos.

Friable ACM, Category I and Category II non-friable ACM which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation/demolition activities are considered regulated ACM (RACM). RACM must be removed prior to renovation or demolition activities.

In the state of South Carolina, asbestos activities are regulated by the SCDHEC under the SCDHEC Regulation 61-86.1 Standards of Performance for Asbestos Projects. The SCDHEC require that any asbestos-related activity conducted in a public building be performed by personnel licensed by the SCDHEC. The owner or operator must provide the SCDHEC with written notification of planned abatement and removal activities prior to the commencement of those activities. The SCDHEC requires 4 day notification for non-friable projects and 10 day notification for RACM projects.

Asbestos abatement must be performed by SCDHEC-licensed asbestos abatement contractors. A SCDHEC-licensed Project Designer shall prepare a written abatement design for each abatement renovation project involving the removal of greater than 3,000 square, 1,500 linear, or 656 cubic feet of RACM. Third-party air monitoring must be conducted during the abatement of friable (regulated) ACM. The SCDHEC asbestos regulations can be found at http://www.scdhec.gov.

The Occupational Safety and Health Administration (OSHA) Asbestos Standard for Construction Industry (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard



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requires that employee exposure to airborne asbestos fibers be maintained below 0.1 asbestos fibers per cubic centimeter of air (0.1 f/cc) for an eight-hour time weighted average. The OSHA standard classifies construction and maintenance activities, which could disturb ACM, and specifies work practices and precautions which employers must follow when engaging in each class of regulated work. A full copy of the OSHA asbestos standard for general industry may be found at OSHA's website (www.osha.gov) and should be referenced for specific information.

3.2 Visual Assessment

Our survey activities began with visual observation of the exterior and interior of the building to identify apparent homogeneous areas of suspect ACM. A homogeneous area consists of building materials, which appear similar throughout in terms of color, texture and date of application. Building materials which were not identified as concrete, glass, wood, masonry, metal or rubber were considered suspect ACM.

Terracon lifted floor coverings in several areas, where possible, and did not observe additional flooring layers unless mentioned in this report; however, as Terracon could not assess beneath all floor covering in all areas, there may be isolated areas of additional suspect material present beneath existing flooring.

3.3 Physical Assessment

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material, which can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

3.4 Sample Collection

Based on our observations, bulk samples of suspect ACMs were collected in general accordance with SCDHEC and EPA sample collection protocols. Random samples of suspect materials were collected in each homogeneous area. Bulk samples were collected using wet methods as applicable to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

The selection of sample locations and frequency of sampling was based on Terracon's observations and the assumption that like materials in the same area are homogeneous in content. A summary of the suspect ACM samples collected during the survey is presented in Table 1 in Appendix A. Sample locations are depicted on Exhibits A1, A2, & A-3 in Appendix B.



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3.5 Sample Analysis

Bulk samples were submitted under chain of custody to EMSL Analytical Laboratories in Pineville, North Carolina for analysis by Polarized Light Microscopy (PLM) with dispersion staining techniques per EPA EPA/600/R-93/116. The percentage of asbestos, where applicable, was determined by microscopical visual estimation. EMSL is accredited under the National Voluntary Laboratory Accreditation Program NVLAP.

Per the SCDHEC Regulation 61-86.1 Standards of Performance for Asbestos Projects, negative results for non-friable organically bound (NOB) materials such as flooring and roofing shall be verified with at least one TEM analysis. The additional analysis was performed by TEM in accordance with EPA/600/R-93/116 Section 2.5.5.1.

3.6 Findings and Recommendations

Two-hundred and forty-three (243) bulk samples were collected from sixty-four (64) homogeneous areas of suspect ACM. Based on the results of laboratory analysis, the following suspect materials were identified as asbestos-containing materials (ACMs) defined as containing >1% asbestos:

- Friable joint compound (Chrysotile, 2%) associated with the wallboard system located on the first and second floor; approximately 150,000 ft²
- Non-friable sheet flooring (Chrysotile, 12-15%) associated with the hallway surrounding the courtyard on the second floor; approximately 21,000 ft²
- Non-friable 12"x12" gray floor tile (Chrysotile, 8%-10%) located in the 3rd wing on the second floor; approximately 2,500 ft²
- Non-friable 12"x12" tan floor tile (Chrysotile, 2%-4%) and associated black mastic (Chrysotile, 6% Chrysotile) located on the first floor (basement); approximately 7,500 ft²
- Non-friable 9"x9" green floor tile (Chrysotile, 3%-4%) associated with the flooring on the first floor (basement); approximately 7,500 ft²
- Friable pipe insulation (Amosite, 2%-8%; Chrysotile, 30%-35%) associated with the piping of the first floor (basement); approximately 1,200 linear feet
- Friable pipe debris (Amosite, 20%; Chrysotile, 10%) associated with the entire first floor (basement); approximately 30,000 ft²
- Friable pipe elbow (Amosite, 2%) associated with exterior boiler room 1; 1 Elbow
- Friable door gasket (Chrysotile, 60%) associated with exterior boiler room 1 boiler door; approximately 20 linear feet.
- Pipe Insulation (10% Amosite; 4% Chrysotile) associated with the debris located on the second floor building entrance; approximately 2,500 ft²
- Floor tile and mastics (4-6% Chrysotile) associated with beige floor tile and black bottom layer mastic located in the 2nd wing on the second floor; approximately 2,500 ft²

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- Floor tile (8% Chrysotile) associated with the beige floor tile located in the 1st wing on the second floor; approximately 2,500 ft²
- Floor Tile (8% Chrysotile) associated with the beige floor tile located in the 8th wing on the second floor; approximately 2,500 ft²
- Sheet Flooring (15% Chrysotile) associated with the red/orange sheet flooring located in the 9th wing on the second floor; approximately 2,500 ft²
- Transite Siding (15% Chrysotile) associated with the siding of the connecting bridges between 2nd, 3rd, and 4th wings on the second floor; approximately 3,000 ft²
- Black floor tile mastic (3% Chrysotile) associated with the red floor tile located in the 7th wing entrance on the second floor; approximately 1,500 ft²
- Floor tile (8% chrysotile) associated with the beige floor tile located on west end of the 7th wing on the second floor; approximately 1,500 ft²

The following materials contained <1% asbestos

- Friable sheet flooring mastic (0.58% Chrysotile) associated with the sheet flooring in the hallway surrounding the courtyard; approximately 21,000 ft²
- Green floor tile mastic (0.56% Chrysotile) associated with 12' floor tile located in the 1st wing on the second floor; approximately 2,500 ft²
- Black floor tile mastic (0.68% Chrysotile) associated with 12' floor tile located in the 1st wing on the second floor; approximately 1,500 ft²
- Orange carpet mastic (0.58% Chrysotile) associated with the carpet located in the 3rd wing on the second floor; approximately 5,000 ft²
- Tan and black floor tile mastic (0.69% Chrysotile, <1% Chrysotile) associated with 12' gray floor tile located in the 3rd wing on the second floor; approximately 2,500 ft²
- Floor tile mastic (0.27% Chrysotile) associated with 9' green floor tile located on the first floor; approximately 1,200 ft²
- Brown carpet mastic (0.61% Chrysotile) associated with the carpet located in the 4th wing on the second floor; approximately 2,500 ft²
- Floor Tile Mastic (.50% Chrysotile) associated with the black and white floor tile located in the 4th wing on the second floor; approximately 2,500 ft²
- Floor Tile Mastic (.59% Chrysotile) associated with the beige floor tile located in the 8th wing on the second floor; approximately 2,500 ft²
- Sheet flooring mastic (.79% Chrysotile) associated with the red/orange sheet flooring located in the 9th wing on the second floor; approximately 2,500 ft²



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 Floor mastic (.44% Chrysotile) associated with the gray floor tile in the 7th wing on the second floor; approximately 1,500 ft²

Asbestos-Containing Joint Compound

Layered analysis identified 2% Chrysotile in two of the twenty-four samples of joint compound. SCDHEC does not allow drywall and joint compound to be composited. Therefore, the joint compound, associated wallboard system, is considered ACM and must be removed and disposed of as such prior to removal or demolition of walls. Based on the age of the building and the likelihood of multiple renovations and repairs throughout the years, Terracon recommends additional sampling in effort to delineate asbestos in the wallboard (drywall/joint compound). This may be performed during the design phase of this project. If additional samples are not collected, all of the wallboard systems must be treated as ACM.

Damaged ACM

At the time of Terracon's survey, the ACM on the 1st floor is classified as in significantly damaged condition. The 1st floor, all surfaces and materials shall be considered contaminated. Additionally, other parts of the building have damaged ACM. Due to the damaged ACM it is strongly recommended to suspend access to these areas until the asbestos contamination is remediated.

Inaccessible Areas

Areas on the first floor did not appear safe to enter at the time of our investigation. Additionally, interior hallway bridges connecting the 2nd, 3rd, and 4th wing were inaccessible. These areas had damaged building materials obstructing access and were partially underwater as noted on Exhibit A-1. Asbestos-containing materials could exist in this area beyond what has been identified. Once made safe to enter, a licensed asbestos inspector should assess this area for asbestos.

Removal of ACM

The ACMs identified are currently damaged and should be handled in accordance with the applicable OSHA standards and SCDHEC Regulation 61-86.1. Written notification must be submitted to SCDHEC ten (10) business days prior to the renovation or demolition activities. In accordance with SCDHEC asbestos regulations, any facility removing or cleaning greater than 3,000 ft² of regulated ACM (i.e. joint compound/wallboard material) requires a written abatement project design. The project design shall be prepared by a SCDHEC licensed abatement designer to meet SCDHEC Asbestos Regulation 61-86.1. In addition, air monitoring is required in accordance with SCDHEC regulations

If load-bearing walls are scheduled to be removed as part of this renovation project, a SCDHEC demolition permit is required. A copy of this report must be submitted to SCDHEC (Asbestos Section) at least ten (10) working days prior to demolition of load-bearing walls along with a demolition permit application and associated fees. Once processed SCDHEC will issue a permit.

Federal, state and local regulations should be referred to in order to verify compliance before any actions are initiated on an ACM.



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Materials Containing Less Than 1% Asbestos

Materials listed above with an asbestos concentration of <1% are not classified as an ACM by NESHAP and SCDHEC for removal and disposal purposes. However, the removal of the is considered Class II asbestos work by OSHA and should be done under controlled conditions by trained personnel in accordance with the requirements of OSHA Standard 29 CFR 1926.1101. Employer exposures to airborne asbestos fibers must be maintained at or below 0.1 fibers per cc

General

In accordance with OSHA's Asbestos Standard, the employer shall notify affected employees and contractors of the presence and location of asbestos-containing materials and test results. A full copy of the OSHA asbestos standard for general industry may be found at OSHA's website (www.osha.gov) and should be referenced for specific information.

It should be noted that suspect materials, other than those identified during the January 23-24 and February 18, 2020, survey may exist within the structure. Should suspect materials other than those which were identified during this survey be uncovered during or prior to the abatement and demolition process, those materials should be assumed asbestos-containing until sampling and analysis can confirm or refute their asbestos content. Should future sampling indicate that the other material is asbestos containing, Terracon recommends removal of the asbestos-containing materials by a South Carolina licensed asbestos abatement contractor prior to renovation/demolition of the building.

4.0 LEAD-BASED PAINT SURVEY

4.1 Regulatory Overview

Lead is regulated by the EPA, SCDHEC and OSHA. The EPA and SCDHEC regulate lead use, removal, and disposal, and OSHA regulates lead exposure to workers. The EPA defines LBP as paint, varnish, stain, or other applied coating that contains lead equal to or greater than 1.0 mg/cm², 5,000 mg/kg, or 0.5% by dry weight as determined by laboratory analysis. The SCDHEC regulations 61-107.19 require that painted demolition debris with a lead concentration greater than 0.06% by weight be disposed in a permitted Class II landfill. For the purpose of the OSHA lead standard, lead includes metallic lead, all inorganic lead compounds, and organic lead soaps. The complete OSHA standard for compliance can be found on OSHA's website (www.osha.gov). A synopsis of the OSHA regulations (29 CFR 1926.62) and the applicability are as follows:

The OSHA Lead Standard for Construction (29 CFR 1926.62) applies to all construction work where an employee may be occupationally exposed to lead. All work related to construction, alteration, or repair (including painting and decorating) is included. The lead-in-construction standard applies to any detectable concentration of lead in paint, as even small concentrations of lead can result in unacceptable employee exposures depending upon on the method of removal

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and other workplace conditions. Under this standard, construction includes, but is not limited to, the following:

- Demolition or salvage of structures where lead or materials containing lead are present
- Removal or encapsulation of materials containing lead
- New construction, alteration, repair, or renovation of structures, substrates, or portions containing lead, or materials containing lead
- Installation of products containing lead
- Lead contamination/emergency clean-up
- Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed
- Maintenance operations associated with construction activities described above

4.2 Sampling and Analytical Protocol

Mr. Langford of Terracon conducted the lead-based paint (LBP) sampling on January 24, 2020. The LBP sampling was conducted by collecting paint chip samples. The paint chip samples were collected from painted or lacquered surfaces of building components likely to contain LBP, based on apparent date of application. The paint samples were collected down to the surface substrate so as to include any underlying paint systems in the analysis. The random paint chip samples were selected based on current paint schemes and may not be inclusive of old paint systems covered with paneling, or existing painted systems. The paint chip samples were submitted to an ELAP accredited laboratory for analysis of lead by NIOSH Method 7082M (atomic absorption).

4.3 Findings and Recommendations

Twelve (12) paint-chip samples were collected from the components of the structure on the site. Three (3) sample results were above the EPA definition of lead paint of 0.5%. Eleven (11) samples were above the SCDHEC 0.06% by weight threshold for disposal. All paints should be considered lead-containing.

Painted demolition debris may be disposed in a C&D Landfill. SCDHEC regulations require that the lead painted demolition debris be disposed in a permitted Class II landfill. Landfills should be contacted to determine their specific disposal requirements. Metal components painted with lead-based paint may be recycled; however, the recycler should be contacted to determine their specific requirements. A summary of the lead paint laboratory results is presented in Table 2 in Appendix A. The analytical report is included in Appendix B

5.0 LIMITATIONS / GENERAL COMMENTS

This survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same



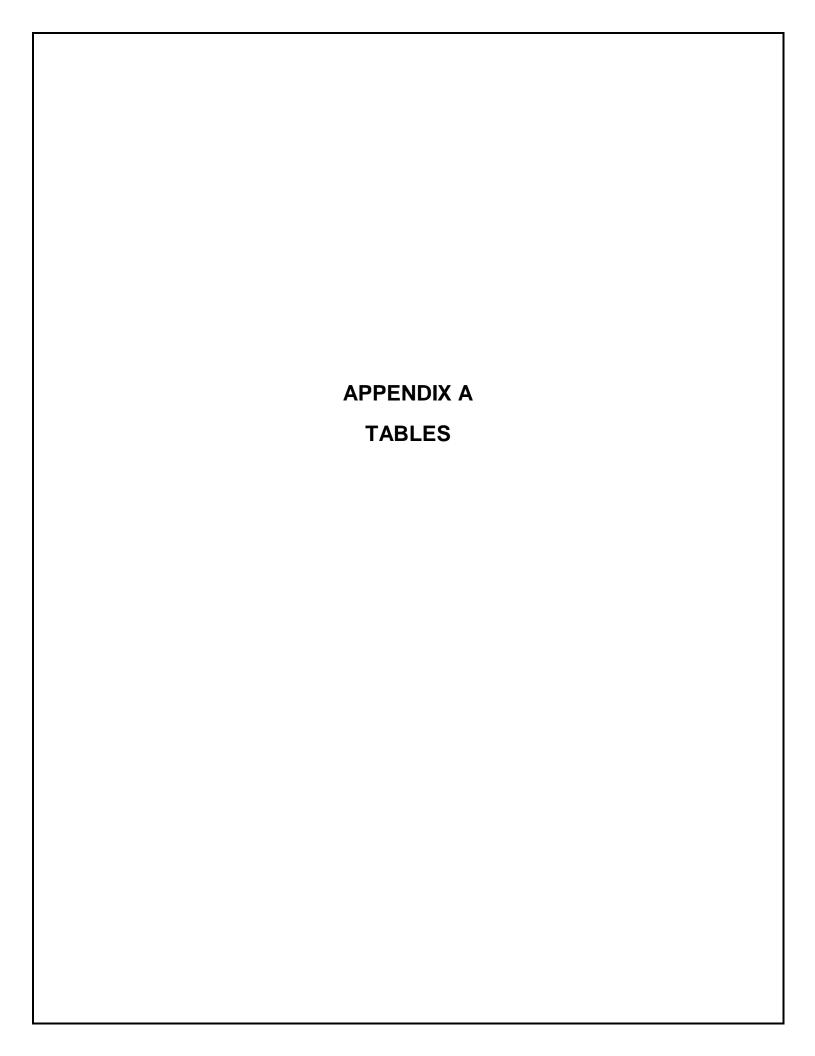
Asbestos and Lead Survey Report

1690 Turnbull Avenue ■ North Charleston, South Carolina February 20, 2019 ■ Terracon Project No. EN197470

locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the renovation areas. The information contained in this report is relevant to the date on which this survey was performed, and should not be relied upon to represent conditions at a later date.

This report has been prepared on behalf of and exclusively for use by Palmetto Railways for specific application to their project as discussed. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information, which may have been used in the preparation of this report. No warranty, express or implied is made.

This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary.



HOSPITAL DISTRICT - FORMER NAVY YARD CHARLESTON, SOUTH CAROLINA TERRACON PROJECT NO. EN197470

Sample Number	Sample Location	Analysis Method	Analytical Results	Sample Description	НА	Classification	Friable/Non-Friable & Current Condition	Estimated Quantity (Square Feet)
2-1-DWJC-03	2nd Floor - 1st Wing	PLM	2 % Chrysotile	Joint Compound				
2-2-DWJC-01	2nd Floor - 2nd Wing	PLM	No Asbestos Detected	Joint Compound				
2-2-DWJC-02	2nd Floor - 2nd Wing	PLM	No Asbestos Detected	Joint Compound				
2-2-DWJC-03	2nd Floor - 2nd Wing	PLM	No Asbestos Detected	Joint Compound				
2-3-DWJC-01	2nd Floor - 3rd Wing	PLM	No Asbestos Detected	Joint Compound				
2-3-DWJC-02	2nd Floor - 3rd Wing	PLM	No Asbestos Detected	Joint Compound				
2-3-DWJC-03	2nd Floor - 3rd Wing	PLM	No Asbestos Detected	Joint Compound	HA-01	Surfacing/RACM		
2-4-DWJC-01	2nd Floor - 4th Wing	PLM	No Asbestos Detected	Joint Compound				
2-4-DWJC-02	2nd Floor - 4th Wing	PLM	No Asbestos Detected	Joint Compound				
2-4-DWJC-03	2nd Floor - 4th Wing	PLM	No Asbestos Detected	Joint Compound				
2-5-DWJC-01	2nd Floor - 5th Wing	PLM	No Asbestos Detected	Joint Compound				
2-5-DWJC-02	2nd Floor - 5th Wing	PLM	No Asbestos Detected	Joint Compound				
2-5-DWJC-03	2nd Floor - 5th Wing	PLM	No Asbestos Detected	Joint Compound				150,000 SF
2-1-DWJC-01	2nd Floor - 1st Wing	PLM	No Asbestos Detected	Drywall			Friable/Significantly	
2-1-DWJC-02	2nd Floor - 1st Wing	PLM	No Asbestos Detected	Drywall			Damaged	
2-1-DWJC-03	2nd Floor - 1st Wing	PLM	No Asbestos Detected	Drywall				
2-2-DWJC-01	2nd Floor - 2nd Wing	PLM	No Asbestos Detected	Drywall				
2-2-DWJC-02	2nd Floor - 2nd Wing	PLM	No Asbestos Detected	Drywall				
2-2-DWJC-03	2nd Floor - 2nd Wing	PLM	No Asbestos Detected	Drywall				
2-3-DWJC-01	2nd Floor - 3rd Wing	PLM	No Asbestos Detected	Drywall				
2-3-DWJC-02	2nd Floor - 3rd Wing	PLM	No Asbestos Detected	Drywall	HA-02	Miscellaneous		
2-3-DWJC-03	2nd Floor - 3rd Wing	PLM	No Asbestos Detected	Drywall				
2-4-DWJC-01	2nd Floor - 4th Wing	PLM	No Asbestos Detected	Drywall				
2-4-DWJC-02	2nd Floor - 4th Wing	PLM	No Asbestos Detected	Drywall				
2-4-DWJC-03	2nd Floor - 4th Wing	PLM	No Asbestos Detected	Drywall				
2-5-DWJC-01	2nd Floor - 5th Wing	PLM	No Asbestos Detected	Drywall				
2-5-DWJC-02	2nd Floor - 5th Wing	PLM	No Asbestos Detected	Drywall				
2-5-DWJC-03	2nd Floor - 5th Wing	PLM	No Asbestos Detected	Drywall				
1-WB-01	1st Floor - 1st Wing	PLM	No Asbestos Detected	Joint Compound				
1-WB-02	1st Floor -1st Wing	PLM	No Asbestos Detected	Joint Compound				
1-WB-03	1st Floor -1st Wing	PLM	No Asbestos Detected	Joint Compound				
1-WB-04	1st Floor -1st Wing	PLM	No Asbestos Detected	Joint Compound				
1-WB-05	1st Floor -1st Wing	PLM	No Asbestos Detected	Joint Compound				
1-WB-06	1st Floor - 2nd Wing	PLM	No Asbestos Detected	Joint Compound	HA-03	Surfacing/RACM		
1-WB-07	1st Floor - 2nd Wing	PLM	2 % Chrysotile	Joint Compound				
1-WB-08	1st Floor - 3rd Wing	PLM	No Asbestos Detected	Joint Compound				
1-WB-09	1st Floor - 4th Wing	PLM	No Asbestos Detected	Joint Compound			Friable/Significantly	00 000 05
1-WB-10	1st Floor - 4th Wing	PLM	No Asbestos Detected	Joint Compound			Damaged	20,000 SF
1-WB-11	1st Floor - 5th Wing	PLM	No Asbestos Detected	Joint Compound				
1-WB-01	1st Floor - 1st Wing	PLM	No Asbestos Detected	Drywall				
1-WB-02	1st Floor -1st Wing	PLM	No Asbestos Detected	Drywall				
1-WB-03	1st Floor	PLM	No Asbestos Detected	Drywall				
1-WB-04	1st Floor	PLM	No Asbestos Detected	Drywall	HA-04	Miscellaneous		
1-WB-05	1st Floor	PLM	No Asbestos Detected	Drywall		iviistellalletus		
1-WB-06	1st Floor - 2nd Wing	PLM	No Asbestos Detected	Drywall				
1-WB-07	1st Floor - 2nd Wing	PLM	No Asbestos Detected	Drywall				

HOSPITAL DISTRICT - FORMER NAVY YARD CHARLESTON, SOUTH CAROLINA TERRACON PROJECT NO. EN197470

Sample Number	Sample Location	Analysis Method	Analytical Results	Sample Description	НА	Classification	Friable/Non-Friable & Current Condition	Estimated Quantity (Square Feet)
2-1-CT-01	2nd Floor - 1st Wing	PLM	No Asbestos Detected	2x4 White Ceiling Tile				
2-2-CT-01	2nd Floor - 2nd Wing	PLM	No Asbestos Detected	2x4 White Ceiling Tile	T		Friable/Significantly	050 000 05
2-3-CT-02	2nd Floor - 3rd Wing	PLM	No Asbestos Detected	2x4 White Ceiling Tile	HA-05	Miscellaneous	Damaged	250,000 SF
2-4-CT-02	2nd Floor - 4th Wing	PLM	No Asbestos Detected	2x4 White Ceiling Tile				
1-AT-01	1st Floor - Wing 3	PLM	No Asbestos Detected	2x2 Acoustic Tile				
1-AT-02	1st Floor - Wing 3	PLM	No Asbestos Detected	2x2 Acoustic Tile	HA-06	Miscellaneous	Friable/Significantly	1,500 SF
1-AT-03	1st Floor - Wing 3	PLM	No Asbestos Detected	2x2 Acoustic Tile			Damaged	
2-H-WG-01	2nd Floor Hallway	PLM	No Asbestos Detected	Beige Window Glazing				
2-H-WG-02	2nd Floor Hallway	PLM	No Asbestos Detected	Beige Window Glazing	HA-07	Miscellaneous	Non-Friable/Damaged	5,000 SF
2-H-WG-03	3rd Floor Hallway	TEM	No Asbestos Detected	Beige Window Glazing				
2-H-WC-01	2nd Floor Hallway	PLM	No Asbestos Detected	White Window Caulking				
2-H-WC-02	2nd Floor Hallway	PLM	No Asbestos Detected	White Window Caulking	HA-08	Miscellaneous	Non-Friable/Damaged	5,000 SF
2-H-WC-03	2nd Floor Hallway	TEM	No Asbestos Detected	White Window Caulking				
2-4-PT-01	2nd Floor - 4th Wing	PLM	No Asbestos Detected	Silver 'Pipe Taping				
2-4-PT-02	2nd Floor - 4th Wing	PLM	No Asbestos Detected	Silver 'Pipe Taping	HA-09	Miscellaneous	Non-Friable/Damaged	1,500 LF
2-4-PT-03	2nd Floor - 4th Wing	PLM	No Asbestos Detected	Silver 'Pipe Taping				
2-5-WC-01	2nd Floor - 5th Wing	PLM	No Asbestos Detected	Brown Wall Caulking				
2-5-WC-02	2nd Floor - 5th Wing	PLM	No Asbestos Detected	Brown Wall Caulking	HA-10	Miscellaneous	Non-Friable/Damaged	1,500 SF
2-5-WC-03	2nd Floor - 5th Wing	PLM	No Asbestos Detected	Brown Wall Caulking			_	
2-H-BBM-01	2nd Floor Hallway	PLM	No Asbestos Detected	Beige Baseboard Mastic				150,000 LF
2-H-BBM-02	2nd Floor Hallway	PLM	No Asbestos Detected	Beige Baseboard Mastic	HA-11	Miscellaneous	Non-Friable/Damaged	
2-H-BBM-03	2nd Floor Hallway	PLM	No Asbestos Detected	Beige Baseboard Mastic				•
2-H-SF-01	2nd Floor Hall	PLM	12 % Chrysotile	Hallway Sheetflooring			Л Friable/Damaged	21,000 SF
2-H-SF-02	2nd Floor Hall	PLM	15 % Chrysotile	Hallway Sheetflooring	HA-12	Miscellaneous/RACM		
2-H-SF-03	2nd Floor Hall	TEM	Positive Stop	Hallway Sheetflooring				
2-H-SF-01	2nd Floor Hall	PLM	No Asbestos Detected	Mastic Under Sheetflooring				
	2nd Floor Hall	PLM	No Asbestos Detected	Mastic Under Sheetflooring	HA-13			
2-H-SF-02	2nd Floor Hall	PLM TEM	No Asbestos Detected	Mastic Under Sheetflooring Mastic Under Sheetflooring	HA-13			
2-H-SF-02 2-H-SF-03	2nd Floor Hall	TEM	.58 % Chrysotile	Mastic Under Sheetflooring	HA-13			
2-H-SF-02 2-H-SF-03 2-1-CM-01	2nd Floor Hall 2nd Floor - 1st Wing				HA-13	Miscellaneous	Non-Friable/Good	2,500 SF
2-H-SF-02 2-H-SF-03 2-1-CM-01 2-1-CM-02	2nd Floor Hall 2nd Floor - 1st Wing 2nd Floor - 1st Wing	TEM PLM PLM	.58 % Chrysotile No Asbestos Detected No Asbestos Detected	Mastic Under Sheetflooring Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile		Miscellaneous	Non-Friable/Good	2,500 SF
2-H-SF-02 2-H-SF-03 2-1-CM-01 2-1-CM-02 2-1-CM-03	2nd Floor Hall 2nd Floor - 1st Wing 2nd Floor - 1st Wing 2nd Floor - 1st Wing	TEM PLM PLM TEM	.58 % Chrysotile No Asbestos Detected No Asbestos Detected 0.56 % Chrysotile	Mastic Under Sheetflooring Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile		Miscellaneous	Non-Friable/Good	2,500 SF
2-H-SF-02 2-H-SF-03 2-1-CM-01 2-1-CM-02 2-1-CM-03 2-1-CM2-01	2nd Floor Hall 2nd Floor - 1st Wing 2nd Floor 1st Wing	TEM PLM PLM TEM PLM	.58 % Chrysotile No Asbestos Detected No Asbestos Detected 0.56 % Chrysotile No Asbestos Detected	Mastic Under Sheetflooring Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Mastic Under Orange Carpet		Miscellaneous Miscellaneous	Non-Friable/Good	2,500 SF
2-H-SF-02 2-H-SF-03 2-1-CM-01 2-1-CM-02 2-1-CM-03 2-1-CM2-01 2-1-CM2-02	2nd Floor Hall 2nd Floor - 1st Wing 2nd Floor - 1st Wing 2nd Floor - 1st Wing 2nd Floor 1st Wing 2nd Floor 1st Wing 2nd Floor 1st Wing	TEM PLM PLM TEM PLM PLM	.58 % Chrysotile No Asbestos Detected No Asbestos Detected 0.56 % Chrysotile No Asbestos Detected No Asbestos Detected	Mastic Under Sheetflooring Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Mastic Under Orange Carpet Mastic Under Orange Carpet	HA-14			,
2-H-SF-02 2-H-SF-03 2-1-CM-01 2-1-CM-02 2-1-CM-03 2-1-CM2-01 2-1-CM2-02 2-1-CM2-03	2nd Floor Hall 2nd Floor - 1st Wing 2nd Floor - 1st Wing 2nd Floor - 1st Wing 2nd Floor 1st Wing 2nd Floor 1st Wing 2nd Floor 1st Wing 2nd Floor 1st Wing	TEM PLM PLM TEM PLM PLM TEM	.58 % Chrysotile No Asbestos Detected No Asbestos Detected 0.56 % Chrysotile No Asbestos Detected No Asbestos Detected No Asbestos Detected No Asbestos Detected	Mastic Under Sheetflooring Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Mastic Under Orange Carpet Mastic Under Orange Carpet Mastic Under Orange Carpet	HA-14			,
2-H-SF-02 2-H-SF-03 2-1-CM-01 2-1-CM-02 2-1-CM-03 2-1-CM2-01 2-1-CM2-02 2-1-CM2-03 2-1-CM2-03 2-1-CM2-01	2nd Floor Hall 2nd Floor - 1st Wing 2nd Floor - 1st Wing 2nd Floor - 1st Wing 2nd Floor 1st Wing	TEM PLM PLM TEM PLM PLM PLM PLM TEM PLM	.58 % Chrysotile No Asbestos Detected No Asbestos Detected 0.56 % Chrysotile No Asbestos Detected	Mastic Under Sheetflooring Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Mastic Under 0 Crange Carpet Mastic Under Orange Carpet Mastic Under Orange Carpet Mastic Under Orange Carpet Backing Under Orange Carpet	HA-14			1,500 SF
2-H-SF-02 2-H-SF-03 2-1-CM-01 2-1-CM-02 2-1-CM-03 2-1-CM2-01 2-1-CM2-02 2-1-CM2-03 2-1-CM2-01 2-1-CM2-01 2-1-CM2-02	2nd Floor Hall 2nd Floor - 1st Wing 2nd Floor - 1st Wing 2nd Floor - 1st Wing 2nd Floor 1st Wing	TEM PLM PLM TEM PLM PLM PLM PLM TEM PLM PLM PLM	.58 % Chrysotile No Asbestos Detected No Asbestos Detected 0.56 % Chrysotile No Asbestos Detected	Mastic Under Sheetflooring Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Mastic Under 0 Grange Carpet Mastic Under Orange Carpet Mastic Under Orange Carpet Backing Under Orange Carpet Backing Under Orange Carpet	HA-14	Miscellaneous	Non-Friable/Good	,
2-H-SF-02 2-H-SF-03 2-1-CM-01 2-1-CM-02 2-1-CM-03 2-1-CM2-01 2-1-CM2-02 2-1-CM2-03 2-1-CM2-01 2-1-CM2-02 2-1-CM2-02 2-1-CM2-02 2-1-CM2-03	2nd Floor Hall 2nd Floor - 1st Wing 2nd Floor - 1st Wing 2nd Floor - 1st Wing 2nd Floor 1st Wing	TEM PLM PLM TEM PLM PLM PLM TEM PLM TEM PLM PLM PLM	.58 % Chrysotile No Asbestos Detected No Asbestos Detected 0.56 % Chrysotile No Asbestos Detected	Mastic Under Sheetflooring Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Mastic Under 0 Grange Carpet Mastic Under Orange Carpet Mastic Under Orange Carpet Backing Under Orange Carpet Backing Under Orange Carpet Backing Under Orange Carpet Backing Under Orange Carpet	HA-14	Miscellaneous	Non-Friable/Good	1,500 SF
2-H-SF-02 2-H-SF-03 2-1-CM-01 2-1-CM-02 2-1-CM-03 2-1-CM2-01 2-1-CM2-02 2-1-CM2-03 2-1-CM2-01 2-1-CM2-02 2-1-CM2-02 2-1-CM2-03 2-1-CM2-03 2-1-CM2-03 2-1-CM2-03	2nd Floor Hall 2nd Floor - 1st Wing 2nd Floor - 1st Wing 2nd Floor - 1st Wing 2nd Floor 1st Wing	TEM PLM PLM TEM PLM PLM TEM PLM TEM PLM PLM PLM PLM PLM PLM	.58 % Chrysotile No Asbestos Detected No Asbestos Detected 0.56 % Chrysotile No Asbestos Detected <1 % Chrysotile	Mastic Under Sheetflooring Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Mastic Under 0 Grapet Mastic Under Orange Carpet Mastic Under Orange Carpet Mastic Under Orange Carpet Backing Under Orange Carpet	HA-14	Miscellaneous	Non-Friable/Good	1,500 SF 1,500 SF
2-H-SF-02 2-H-SF-03 2-1-CM-01 2-1-CM-02 2-1-CM-03 2-1-CM2-01 2-1-CM2-02 2-1-CM2-03 2-1-CM2-01 2-1-CM2-02 2-1-CM2-03 2-1-CM2-01 2-1-CM2-02 2-1-CM2-03 2-1-FTM-01 2-1-FTM-01	2nd Floor Hall 2nd Floor - 1st Wing 2nd Floor - 1st Wing 2nd Floor - 1st Wing 2nd Floor 1st Wing	TEM PLM PLM TEM PLM TEM PLM TEM PLM TEM PLM PLM PLM PLM PLM PLM	.58 % Chrysotile No Asbestos Detected No Asbestos Detected 0.56 % Chrysotile No Asbestos Detected **A State of the companies of the compani	Mastic Under Sheetflooring Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Mastic Under 00 Carpet Mastic Under Orange Carpet Mastic Under Orange Carpet Mastic Under Orange Carpet Backing Under Orange Carpet Black Floor Tile Mastic Black Floor Tile Mastic	HA-14 HA-15 HA-16	Miscellaneous Miscellaneous	Non-Friable/Good Non-Friable/Good	1,500 SF
2-H-SF-02 2-H-SF-03 2-1-CM-01 2-1-CM-02 2-1-CM-03 2-1-CM2-01 2-1-CM2-02 2-1-CM2-03 2-1-CM2-01 2-1-CM2-02 2-1-CM2-03 2-1-CM2-03 2-1-FTM-01 2-1-FTM-01 2-1-FTM-03	2nd Floor Hall 2nd Floor - 1st Wing 2nd Floor - 1st Wing 2nd Floor - 1st Wing 2nd Floor 1st Wing	TEM PLM PLM PLM PLM PLM PLM PLM PLM PLM PL	.58 % Chrysotile No Asbestos Detected No Asbestos Detected 0.56 % Chrysotile No Asbestos Detected 4 % Chrysotile 4 % Chrysotile 0.68 % Chrysotile	Mastic Under Sheetflooring Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Mastic Under 0 Grapet Mastic Under Orange Carpet Mastic Under Orange Carpet Mastic Under Orange Carpet Backing Under Orange Carpet Black Floor Tile Mastic Black Floor Tile Mastic	HA-14 HA-15 HA-16	Miscellaneous Miscellaneous	Non-Friable/Good Non-Friable/Good	1,500 SF 1,500 SF
2-H-SF-02 2-H-SF-03 2-1-CM-01 2-1-CM-02 2-1-CM-03 2-1-CM2-01 2-1-CM2-02 2-1-CM2-03 2-1-CM2-01 2-1-CM2-02 2-1-CM2-03 2-1-CM2-03 2-1-FTM-01 2-1-FTM-01 2-1-FTM-02 2-1-FTM-03 2-H-CM-01	2nd Floor Hall 2nd Floor - 1st Wing 2nd Floor 1st Wing	TEM PLM PLM PLM PLM PLM PLM PLM PLM PLM PL	.58 % Chrysotile No Asbestos Detected No Asbestos Detected 0.56 % Chrysotile No Asbestos Detected Vo Asbestos Detected No Asbestos Detected <1 % Chrysotile <1% Chrysotile 0.68 % Chrysotile No Asbestos Detected	Mastic Under Sheetflooring Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Mastic Under 07 Grapet Mastic Under Orange Carpet Mastic Under Orange Carpet Mastic Under Orange Carpet Backing Under Orange Carpet Black Floor Tile Mastic Black Floor Tile Mastic Orange Mastic Under Blue Carpet	HA-14 HA-15 HA-16 HA-17	Miscellaneous Miscellaneous Miscellaneous	Non-Friable/Good Non-Friable/Good Non-Friable/Good	1,500 SF 1,500 SF 1,500 SF
2-H-SF-02 2-H-SF-03 2-1-CM-01 2-1-CM-02 2-1-CM-03 2-1-CM2-01 2-1-CM2-02 2-1-CM2-03 2-1-CM2-03 2-1-CM2-03 2-1-CM2-03 2-1-FTM-01 2-1-FTM-01 2-1-FTM-02 2-1-FTM-03 2-H-CM-01 2-H-CM-02	2nd Floor Hall 2nd Floor - 1st Wing 2nd Floor - 1st Wing Outside 2nd Floor - 1st Wing	TEM PLM PLM PLM PLM PLM PLM PLM PLM PLM PL	.58 % Chrysotile No Asbestos Detected No Asbestos Detected 0.56 % Chrysotile No Asbestos Detected Vo Asbestos Detected No Asbestos Detected <1 % Chrysotile <1% Chrysotile 0.68 % Chrysotile No Asbestos Detected No Asbestos Detected No Asbestos Detected	Mastic Under Sheetflooring Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Mastic Under 12' Floor Tile Mastic Under Orange Carpet Mastic Under Orange Carpet Mastic Under Orange Carpet Backing Under Orange Carpet Backing Under Orange Carpet Backing Under Orange Carpet Backing Under Orange Carpet Black Floor Tile Mastic Black Floor Tile Mastic Orange Mastic Under Blue Carpet Orange Mastic Under Blue Carpet	HA-14 HA-15 HA-16	Miscellaneous Miscellaneous	Non-Friable/Good Non-Friable/Good	1,500 SF 1,500 SF
2-H-SF-02 2-H-SF-03 2-1-CM-01 2-1-CM-02 2-1-CM-03 2-1-CM2-01 2-1-CM2-02 2-1-CM2-03 2-1-CM2-03 2-1-CM2-03 2-1-CM2-03 2-1-FTM-01 2-1-FTM-01 2-1-FTM-02 2-1-FTM-03 2-H-CM-01 2-H-CM-02 2-H-CM-03	2nd Floor Hall 2nd Floor - 1st Wing 2nd Floor - 1st Wing Outside 2nd Floor - 1st Wing Outside 2nd Floor - 1st Wing	TEM PLM PLM PLM PLM TEM PLM PLM PLM PLM PLM PLM PLM PLM PLM PL	.58 % Chrysotile No Asbestos Detected No Asbestos Detected 0.56 % Chrysotile No Asbestos Detected 1 % Chrysotile 1 % Chrysotile 0.68 % Chrysotile No Asbestos Detected No Asbestos Detected	Mastic Under Sheetflooring Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Mastic Under 12' Floor Tile Mastic Under Orange Carpet Mastic Under Orange Carpet Mastic Under Orange Carpet Backing Under Orange Carpet Backing Under Orange Carpet Backing Under Orange Carpet Backing Under Orange Carpet Black Floor Tile Mastic Black Floor Tile Mastic Black Floor Tile Mastic Orange Mastic Under Blue Carpet Orange Mastic Under Blue Carpet Orange Mastic Under Blue Carpet	HA-14 HA-15 HA-16 HA-17	Miscellaneous Miscellaneous Miscellaneous	Non-Friable/Good Non-Friable/Good Non-Friable/Good	1,500 SF 1,500 SF 1,500 SF
2-H-SF-02 2-H-SF-03 2-1-CM-01 2-1-CM-02 2-1-CM-03 2-1-CM2-01 2-1-CM2-02 2-1-CM2-03 2-1-CM2-03 2-1-CM2-03 2-1-CM2-03 2-1-FTM-01 2-1-FTM-01 2-1-FTM-02 2-1-FTM-03 2-H-CM-01 2-H-CM-02	2nd Floor Hall 2nd Floor - 1st Wing 2nd Floor - 1st Wing Outside 2nd Floor - 1st Wing	TEM PLM PLM PLM PLM PLM PLM PLM PLM PLM PL	.58 % Chrysotile No Asbestos Detected No Asbestos Detected 0.56 % Chrysotile No Asbestos Detected Vo Asbestos Detected No Asbestos Detected <1 % Chrysotile <1% Chrysotile 0.68 % Chrysotile No Asbestos Detected No Asbestos Detected No Asbestos Detected	Mastic Under Sheetflooring Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Green Mastic Under 12' Floor Tile Mastic Under 12' Floor Tile Mastic Under Orange Carpet Mastic Under Orange Carpet Mastic Under Orange Carpet Backing Under Orange Carpet Backing Under Orange Carpet Backing Under Orange Carpet Backing Under Orange Carpet Black Floor Tile Mastic Black Floor Tile Mastic Orange Mastic Under Blue Carpet Orange Mastic Under Blue Carpet	HA-14 HA-15 HA-16 HA-17	Miscellaneous Miscellaneous Miscellaneous	Non-Friable/Good Non-Friable/Good Non-Friable/Good	1,500 SF 1,500 SF 1,500 SF

HOSPITAL DISTRICT - FORMER NAVY YARD CHARLESTON, SOUTH CAROLINA TERRACON PROJECT NO. EN197470

Sample Number	Sample Location	Analysis Method	Analytical Results	Sample Description	НА	Classification	Friable/Non-Friable & Current Condition	Estimated Quantity (Square Feet)
2-3 CM-01	2nd Floor - 3rd Wing	PLM	<1 % Chrysotile	Orange Carpet Mastic				
2-3 CM-02	2nd Floor - 3rd Wing	PLM	<1 % Chrysotile	Orange Carpet Mastic	HA-20	Miscellaneous	Non-Friable/Good	5,000 SF
2-3 CM-03	2nd Floor - 3rd Wing	TEM	0.58 % Chrysotile	Orange Carpet Mastic				
2-3-FT-01	2nd Floor - 3rd Wing	PLM	8 % Chrysotile	Gray 12x12 Floor Tile				
2-3-FT-02	2nd Floor - 3rd Wing	PLM	10 % Chrysotile	Gray 12x12 Floor Tile	HA-21			
2-3-FT-03	2nd Floor - 3rd Wing	TEM	Positive Stop	Gray 12x12 Floor Tile				
2-3-FT-01	2nd Floor - 3rd Wing	PLM	No Asbestos Detected	Tan Top Layer Mastic Under HA-19				
2-3-FT-02	2nd Floor - 3rd Wing	PLM	No Asbestos Detected	Tan Top Layer Mastic Under HA-19	HA-22	Miscellaneous/ RACM	Friable/Damaged	2,500 SF
2-3-FT-03	2nd Floor - 3rd Wing	TEM	0.69 % Chrysotile	Tan Top Layer Mastic Under HA-19				
2-3-FT-01	2nd Floor - 3rd Wing	PLM	<1% Chysotile	Black Bottom Layer Mastic Under HA-19				
2-3-FT-02	2nd Floor - 3rd Wing	PLM	No Asbestos Detected	Black Bottom Layer Mastic Under HA-20	HA-23			
2-3-FT-03	2nd Floor - 3rd Wing	TEM	No Asbestos Detected	Black Bottom Layer Mastic Under HA-21				
1-FT1-01	1st Floor	PLM	2 % Chrysotile	Tan12x12 Floor Tile				
1-FT1-02	1st Floor	PLM	4 % Chrysotile	Tan12x12 Floor Tile	HA-24			
1-FT1-03	1st Floor	TEM	Positive Stop	Tan12x12 Floor Tile				
1-FT1-01	1st Floor	PLM	6 % Chrysotile	Black Floor Tile Mastic		Miscellaneous/ RACM	Friable/Damaged	7,500 SF
1-FT1-02	1st Floor	PLM	6 % Chrysotile	Black Floor Tile Mastic	HA-25			
1-FT1-03	1st Floor	TEM	Positive Stop	Black Floor Tile Mastic				
1-FT2-01	1st Floor	PLM	3 % Chysotile	9" Green Floor Tile			M Friable/Damaged	1,200 SF
1-FT2-02	1st Floor	PLM	4 % Chrysotile	9" Green Floor Tile	HA-26			
1-FT2-03	1st Floor	TEM	Positive Stop	9" Green Floor Tile		Missellensess / DAOM		
1-FT2-01	1st Floor	PLM	No Asbestos Detected	Floor Tile Mastic		Miscellaneous/ RACM		
1-FT2-02	1st Floor	PLM	No Asbestos Detected	Floor Tile Mastic	HA-27			
1-FT2-03	1st Floor	TEM	0.27 % Chrysotile	Floor Tile Mastic				
2-5-CM-01	2nd Floor - 5th Wing	PLM	No Asbestos Detected	Orange Carpet Mastic				
2-5-CM-02	2nd Floor - 5th Wing	PLM	No Asbestos Detected	Orange Carpet Mastic	HA-28	Miscellaneous	Non-Friable	7,500 SF
2-5-CM-03	2nd Floor - 5th Wing	TEM	No Asbestos Detected	Orange Carpet Mastic				
2-4-CM-01	2nd Floor - 4th Wing	PLM	<1 % Chrysotile	Brown Carpet Mastic				
2-4-CM-02	2nd Floor - 4th Wing	PLM	No Asbestos Detected	Brown Carpet Mastic	HA-29	Miscellaneous	Non-Friable	2,500 SF
2-4-CM-03	2nd Floor - 4th Wing	TEM	0.61 % Chrysotile	Brown Carpet Mastic				
1-PI-01	1st Floor	PLM	No Asbestos Detected	Pipe - Wrap				
1-PI-02	1st Floor	PLM	No Asbestos Detected	Pipe - Wrap	HA-30			
1-PI-03	1st Floor	PLM	No Asbestos Detected	Pipe - Wrap		TSI	Friable/Good	1,500 LF
1-PI-01	1st Floor	PLM	No Asbestos Detected	Pipe - Insulation		101	Filable/Good	1,500 LF
1-PI-02	1st Floor	PLM	No Asbestos Detected	Pipe - Insulation	HA-31			
1-PI-03	1st Floor	PLM	No Asbestos Detected	Pipe - Insulation				
PI-01	1st Floor - Hallway	PLM	2 % Amosite; 35 % Chrysotile	White 10" Pipe Insulation				
PI-02	1st Floor - Hallway	PLM	8 % Amosite; 30 % Chrysotile	White 4" Pipe Insulation	HA-32	32 TSI/RACM	Friable/Damaged	1,200 LF
PI-03	1st Floor - Wing 1	PLM	5 % Amosite; 35 % Chrysotile	Green 4" Pipe Insulation	HA-32			
PI-03	1st Floor - Wing 1	PLM	No Asbestos Detected	Green 4 Pipe Insulation Wrap				

HOSPITAL DISTRICT - FORMER NAVY YARD CHARLESTON, SOUTH CAROLINA TERRACON PROJECT NO. EN197470

Sample Number	Sample Location	Analysis Method	Analytical Results	Sample Description	HA Classification		Friable/Non-Friable & Current Condition	Estimated Quantity (Square Feet)
D-01	1st Floor - Wing 1	PLM	20 % Amosite; 10 % Chysotile	Pipe Debris on Floor in Hall/Wings				
D-02	1st Floor - Wing 4	PLM	20 % Amosite; 10 % Chysotile	Pipe Debris on Floor in Hall/Wings				
D-03	1st Floor - Wing 4	PLM	20 % Amosite; 10 % Chysotile	Pipe Debris on Floor in Hall/Wings	HA-33	TSI/RACM	Friable/Significantly	30,000 SF (contaminated
D-04	1st Floor - Wing 3	PLM	25 % Amosite; 10 % Chysotile	Pipe Debris on Floor in Hall/Wings	11A-33	ISINACIVI	Damaged	flooring/derbis)
D-05	1st Floor - Wing 3	PLM	20 % Amosite; 15 % Chysotile	Pipe Debris on Floor in Hall/Wings				g,
D-06	1st Floor - Wing 2	PLM	20 % Amosite; 10 % Chysotile	Pipe Debris on Floor in Hall/Wings				
E-PE-01	Exterior Boiler Room	PLM	No Asbestos Detected	Pipe Elbow Wrap	HA-34	TSI/RACM	Friable/Damaged	1 Elbow
E-PE-01	Exterior Boiler Room	PLM	2 % Amosite	Pipe Elbow Insulation	11A-34	TOTACIVI	Friable/Daillageu	1 Libow
E-PW-01	Exterior Boiler Room -1	PLM	No Asbestos Detected	Pipe Insulation				
E-PW-02	Exterior Boiler Room -1	PLM	No Asbestos Detected	Pipe Insulation	HA-35	TSI	Friable/Damaged	30 LF
E-PW-03	Exterior Boiler Room -1	PLM	No Asbestos Detected	Pipe Insulation				
E-GI-01	Exterior Boiler Room - Door	PLM	60 % Chrysotile	Door Gasket		,		
E-GI-02	Exterior Boiler Room - Door	PLM	60 % Chrysotile	Door Gasket	HA-36	Miscellaneous/ Category I	Friable/Damaged	20 LF
E-GI-03	Exterior Boiler Room - Door	PLM	60 % Chrysotile	Door Gasket		Category		
E-DI-01	Exterior Boiler Room -1	PLM	No Asbestos Detected	Door Insulation				
E-DI-02	Exterior Boiler Room -1	PLM	No Asbestos Detected	Door Insulation	HA-37	TSI	Friable/Damaged	20 SF
E-DI-03	Exterior Boiler Room -1	PLM	No Asbestos Detected	Door Insulation				
E-PI-01	Exterior Boiler Room -1	PLM	No Asbestos Detected	White Pipe Insulation				
E-PI-02	Exterior Boiler Room -1	PLM	No Asbestos Detected	White Pipe Insulation				
E-PI-03	Exterior Boiler Room -1	PLM	No Asbestos Detected	White Pipe Insulation				
E-PI-01	Exterior Boiler Room -1	PLM	No Asbestos Detected	Pipe Insulation Wrap	HA-38	TSI	Friable/Damaged	20 LF
E-PI-02	Exterior Boiler Room -1	PLM	No Asbestos Detected	Pipe Insulation Wrap				
E-PI-03	Exterior Boiler Room -1	PLM	No Asbestos Detected	Pipe Insulation Wrap				
E-BI-01	Exterior Boiler Room -1	PLM	No Asbestos Detected	Gray Boiler Insulation			Friable/Damaged	150 SF
E-BI-02	Exterior Boiler Room -1	PLM	No Asbestos Detected	Gray Boiler Insulation	HA-39	TSI		
E-BI-03	Exterior Boiler Room -1	PLM	No Asbestos Detected	Gray Boiler Insulation				
E-BI2-01	Exterior Boiler Room 2	PLM	No Asbestos Detected	Gray Boiler Insulation				
E-BI2-02	Exterior Boiler Room 2	PLM	No Asbestos Detected	Gray Boiler Insulation	HA-40	TSI	Friable/Damaged	150 SF
E-BI2-03	Exterior Boiler Room 2	PLM	No Asbestos Detected	Gray Boiler Insulation				
E-GM2-01	Exterior Boiler Room 2	PLM	No Asbestos Detected	Gasket				
E-GM2-02	Exterior Boiler Room 2	PLM	No Asbestos Detected	Gasket	HA-41	TSI	Friable/Damaged	20 LF
E-GM2-03	Exterior Boiler Room 2	PLM	No Asbestos Detected	Gasket				
E-PI2	Exterior Boiler Room 2	PLM	No Asbestos Detected	White Outside Pipe Insulation				
E-PI3	Exterior Boiler Room 2	PLM	No Asbestos Detected	White Outside Pipe Insulation	HA-42	TSI	Friable/Damaged	120 LF
E-PI4	Exterior Boiler Room 2	PLM	No Asbestos Detected	White Outside Pipe Insulation				
FD-01	2nd Floor Main	PLM	No Asbestos Detected	Fire Door			1	
FD-02	2nd Floor Main	PLM	No Asbestos Detected	Fire Door	HA-43	TSI	Friable/Damaged	15 SF
FD-03	2nd Floor Main	PLM	No Asbestos Detected	Fire Door	-			
RF-01	Roof	PLM	No Asbestos Detected	Roofing Felt				
RF-02	Roof	PLM	No Asbestos Detected	Roofing Felt	HA-44	Miscellaneous	Non-Friable/Damaged	150,00 SF
RF-03	Roof	TEM	No Asbestos Detected	Roofing Felt	- ","			.55,00 01
2-E-PI-01	2nd Floor Entrance (South)	PLM	10% Amosite; 4% Chrysotile	White Pipe Insulation (Debris)				
2-E-PI-02	2nd Floor Entrance (South)	PLM	10% Amosite; 4% Chrysotile	White Pipe Insulation (Debris)	HA-45	TSI/RACM	Friable/Damaged	2,500 SF
2-E-PI-03	2nd Floor Entrance (South)	PLM	8% Amosite; 4% Chrysotile	White Pipe Insulation (Debris)				_,550 0.

HOSPITAL DISTRICT - FORMER NAVY YARD CHARLESTON, SOUTH CAROLINA TERRACON PROJECT NO. EN197470

Sample Number	Sample Location	Analysis Method	Analytical Results	Sample Description	HA Classification		Friable/Non-Friable & Current Condition	Estimated Quantity (Square Feet)
2-2-FT-01	2nd Floor - 2nd Wing	PLM	6% Chrysotile	Beige Floor Tile				
2-2-FT-02	2nd Floor - 2nd Wing	PLM	5% Chrysotile	Beige Floor Tile	HA-46	Miscellaneous	Friable/Damaged	2,500 SF
2-2-FT-03	2nd Floor - 2nd Wing	TEM	Positive Stop	Beige Floor Tile				
2-2-FT-01	2nd Floor - 2nd Wing	PLM	No Asbestos Detected	Tan Top Layer Mastic				
2-2-FT-02	2nd Floor - 2nd Wing	PLM	No Asbestos Detected	Tan Top Layer Mastic	HA-47	Miscellaneous	Friable/Damaged	2,500 SF
2-2-FT-03	2nd Floor - 2nd Wing	TEM	No Asbestos Detected	Tan Top Layer Mastic				
2-2-FT-01	2nd Floor - 2nd Wing	PLM	6% Chrysotile	Black Bottom Layer Mastic				
2-2-FT-02	2nd Floor - 2nd Wing	PLM	4% Chysotile	Black Bottom Layer Mastic	HA-48	Miscellaneous	Friable/Damaged	2,500 SF
2-2-FT-03	2nd Floor - 2nd Wing	TEM	Positive Stop	Black Bottom Layer Mastic				
2-4-FT-01	2nd Floor - 4th Wing	PLM	No Asbestos Detected	Black/White Floor Tile				
2-4-FT-02	2nd Floor - 4th Wing	PLM	No Asbestos Detected	Black/White Floor Tile	HA-49	Miscellaneous	Friable/Damaged	2,500 SF
2-4-FT-03	2nd Floor - 4th Wing	TEM	No Asbestos Detected	Black/White Floor Tile	1			,
2-4-FT-01	2nd Floor - 4th Wing	PLM	No Asbestos Detected	Gray Mastic				
2-4-FT-02	2nd Floor - 4th Wing	PLM	No Asbestos Detected	Gray Mastic	HA-50	Miscellaneous	Friable/Damaged	2,500 SF
2-4-FT-03	2nd Floor - 4th Wing	TEM	.50% Chysotile	Gray Mastic				,
2-1-FT-01	2nd Floor - 1st Wing	PLM	8% Chysotile	Beige Floor Tile				
2-1-FT-02	2nd Floor - 1st Wing	PLM	8% Chysotile	Beige Floor Tile	HA-51	Miscellaneous	Friable/Damaged	2,500 SF
2-1-FT-03	2nd Floor - 1st Wing	TEM	Positive Stop	Beige Floor Tile	- 11401	mochanous	i nasio/Damagea	2,000 01
2-8-FT-01	2nd Floor - 8th Wing	PLM	8% Chysotile	Beige Floor Tile				
2-8-FT-02	2nd Floor - 8th Wing	PLM	8% Chysotile	Beige Floor Tile	HA-52	Miscellaneous	Friable/Damaged	2,500 SF
		TEM	·		TIA-32	Wilscellalleous	r nable/Damageu	2,300 31
2-8-FT-03	2nd Floor - 8th Wing		Positive Stop	Beige Floor Tile				
2-8-FT-01	2nd Floor - 8th Wing	PLM	No Asbestos Detected	Top Layer Tan Mastic	HA-53	Minnellander	Frields/Dansand	2,500 SF
2-8-FT-02	2nd Floor - 8th Wing	PLM	No Asbestos Detected	Top Layer Tan Mastic	HA-53	Miscellaneous	Friable/Damaged	
2-8-FT-03	2nd Floor - 8th Wing	TEM	.59% Chrysotile	Top Layer Tan Mastic				
2-8-FT-01	2nd Floor - 8th Wing	PLM	<1% Chrysotile	Bottom Layer Black Mastic		Miscellaneous	Friable/Damaged	2,500 SF
2-8-FT-02	2nd Floor - 8th Wing	PLM	<1% Chrysotile	Bottom Layer Black Mastic	HA-54			
2-8-FT-03	2nd Floor - 8th Wing	TEM	.75% Chysotile	Bottom Layer Black Mastic				
2-9-SF-01	2nd Floor - 9th Wing	PLM	15% Chrysotile	Red/Orange Sheet Flooring				2,500 SF
2-9-SF-02	2nd Floor - 9th Wing	PLM	15% Chrysotile	Red/Orange Sheet Flooring	HA-55	Miscellaneous	Friable/Damaged	
2-9-SF-03	2nd Floor - 9th Wing	TEM	Positive Stop	Red/Orange Sheet Flooring				
2-9-SF-01	2nd Floor - 9th Wing	PLM	No Asbestos Detected	Red/Orange Sheet Flooring Beige Mastic				
2-9-SF-02	2nd Floor - 9th Wing	PLM	<1% Chysotile	Red/Orange Sheet Flooring Beige Mastic	HA-56	Miscellaneous	Friable/Damaged	2,500 SF
2-9-SF-03	2nd Floor - 9th Wing	TEM	.79% Chysotile	Red/Orange Sheet Flooring Beige Mastic				
2-EXT-TS-01	2 Floor EXT Wing Connectors	PLM	15% Chrysotile; <1% Crocidolite	White Transite Siding				
2-EXT-TS-02	2 Floor EXT Wing Connectors	PLM	15% Chrysotile; <1% Crocidolite	White Transite Siding	HA-57	Miscellaneous	Friable/Damaged	3,000 SF
2-EXT-TS-03	2 Floor EXT Wing Connectors	PLM	15% Chrysotile; <1% Crocidolite	White Transite Siding				
2-EXT-TS-01	2 Floor EXT Wing Connectors	PLM	No Asbestos Detected	Black Felt under Siding				
2-EXT-TS-02	2 Floor EXT Wing Connectors	PLM	No Asbestos Detected	Black Felt under Siding	HA-58	Miscellaneous	Friable/Damaged	3,000 SF
2-EXT-TS-03	2 Floor EXT Wing Connectors	TEM	No Asbestos Detected	Black Felt under Siding				
2-7-FT-01	2nd Floor - 7th Wing (Entrance)	PLM	No Asbestos Detected	Red Floor Tile				
2-7-FT-02	2nd Floor - 7th Wing (Entrance)	PLM	No Asbestos Detected	Red Floor Tile	HA-59	Miscellaneous	Friable/Damaged	1,500 SF
2-7-FT-03	2nd Floor - 7th Wing (Entrance)	TEM	No Asbestos Detected	Red Floor Tile				
2-7-FT-01	2nd Floor - 7th Wing (Entrance)	PLM	2% Chysotile	Black and Yellow Mastic				
2-7-FT-02	2nd Floor - 7th Wing (Entrance)	PLM	3% Chysotile	Black and Yellow Mastic	HA-60	Miscellaneous	Friable/Damaged	1,500 SF
2-7-FT-03	2nd Floor - 7th Wing (Entrance)	TEM	Positive Stop	Black and Yellow Mastic				
2-7-FT2-01	2nd Floor - 7th Wing (End)	PLM	8% Chysotile	Gray Floor Tile				
2-7-FT2-02	2nd Floor - 7th Wing (End)	PLM	8% Chysotile	Gray Floor Tile	HA-61	Miscellaneous	Friable/Damaged	1,500 SF
	2nd Floor - 7th Wing (End)	TEM	Positive Stop	Gray Floor Tile		wiscellaneous	s Friable/Damaged	1,500 SF
2-7-FT2-03								

HOSPITAL DISTRICT - FORMER NAVY YARD CHARLESTON, SOUTH CAROLINA TERRACON PROJECT NO. EN197470

Sample Number	Sample Location	Analysis Method	Analytical Results	Sample Description	НА	Classification	Friable/Non-Friable & Current Condition	Estimated Quantity (Square Feet)
2-7-FT2-02	2nd Floor - 7th Wing (End)	PLM	<1% Chysotile	Black Mastic	HA-62	Miscellaneous	Friable/Damaged	1,500 SF
2-7-FT2-03	2nd Floor - 7th Wing (End)	TEM	.44% Chysotile	Black Mastic				
2-H-SC-01	2nd Floor Main Hallway	PLM	No Asbestos Detected	Plaster Skim Coat				100,000 SF
2-H-SC-02	2nd Floor Main Hallway	PLM	No Asbestos Detected	Plaster Skim Coat				
2-H-SC-03	2nd Floor Main Hallway	PLM	No Asbestos Detected	Plaster Skim Coat				
2-H-SC-04	2nd Floor Main Hallway	PLM	No Asbestos Detected	Plaster Skim Coat	HA-63	Surfacing	Friable/Damaged	
3-H-SC-05	3rd Floor Main Hallway	PLM	No Asbestos Detected	Plaster Skim Coat				
3-H-SC-06	3rd Floor Main Hallway	PLM	No Asbestos Detected	Plaster Skim Coat				
3-H-SC-07	3rd Floor Main Hallway	PLM	No Asbestos Detected	Plaster Skim Coat				
2-H-PL-01	2nd Floor Main Hallway	PLM	No Asbestos Detected	Plaster Rough Coat				
2-H-PL-02	2nd Floor Main Hallway	PLM	No Asbestos Detected	Plaster Rough Coat				
2-H-PL-03	2nd Floor Main Hallway	PLM	No Asbestos Detected	Plaster Rough Coat				
2-H-PL-04	2nd Floor Main Hallway	PLM	No Asbestos Detected	Plaster Rough Coat				
2-H-PL-05	2nd Floor Main Hallway	PLM	No Asbestos Detected	Plaster Rough Coat	HA-64	Miscellaneous	Friable/Damaged	100,000 SF
2-H-PL-06	2nd Floor Main Hallway	PLM	No Asbestos Detected	Plaster Rough Coat				
2-H-PL-07	2nd Floor Main Hallway	PLM	No Asbestos Detected	Plaster Rough Coat				
2-H-PL-08	2nd Floor Main Hallway	PLM	No Asbestos Detected	Plaster Rough Coat				
2-H-PL-09	2nd Floor Main Hallway	PLM	No Asbestos Detected	Plaster Rough Coat				
	•	2) Quantities listed	above are estimates to be used for ins	di tiems are identified ACMs pection purposes only and should be field-verif tot be used in construction documents or bids	ied for all other	uses.	•	
	HA - Homogene PLM - Polarized Ligh	nt Microscopy		SF - Square Feet			LF - Linear Feet	

TEM - Transmission Electron Microscopy

TABLE 2 LEAD PAINT RESULTS SAMPLE SUMMARY OLD HOSPITAL DISTRICT - OLD NAVY BASE OLD HOSPITAL

1690 TURNBULL AVENUE NORTH CHARLESTON, SOUTH CAROLINA TERRACON PROJECT NO. EN197470

Sample Number	Description	Location	Lab Results % wt
Pb-01	White Wall Paint	Interior Wall 2nd Floor	1.0 %
Pb-02	White Wall Paint	Interior Wall 2nd Floor	1.8 %
Pb-03	Tan Wall Paint	Interior Wall 2nd Floor	1.0 %
Pb-04	White Door Frames	Door Frames 2nd Floor	.26 %
Pb-05	White Door Frames	Door Frames 2nd Floor	.37 %
Pb-06	Tan Door Frames	Door Frames 2nd Floor	.22 %
Pb-07	Beige Window Frame	Windows 2nd Floor	.16 %
Pb-08	Tan Window Frame	Windows 2nd Floor	.19 %
Pb-09	Tan Window Frame	Windows 2nd Floor	.92 %
Pb-10	Black Stairwell	Stairwell Comp.	<0.0080 %
Pb-11	White Stairwell Stairwell Comp.		12 %
Pb-12	White Wall Paint	Stairwell Comp.	.62 %

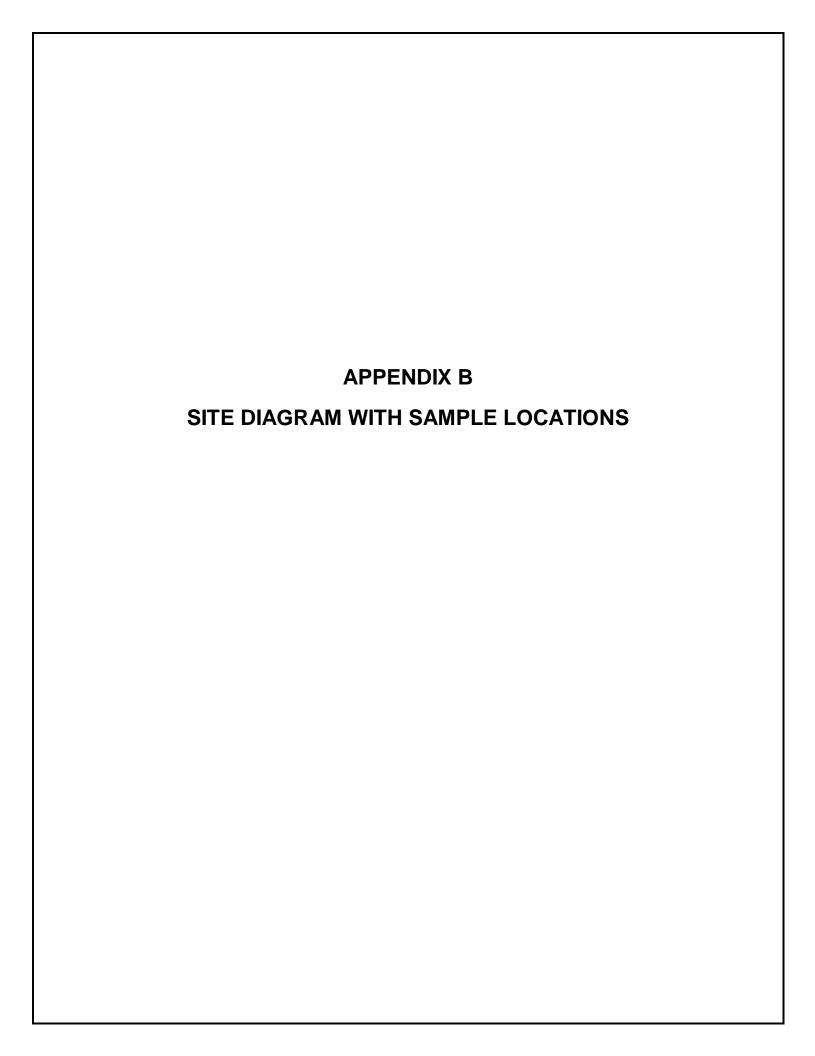
Notes:

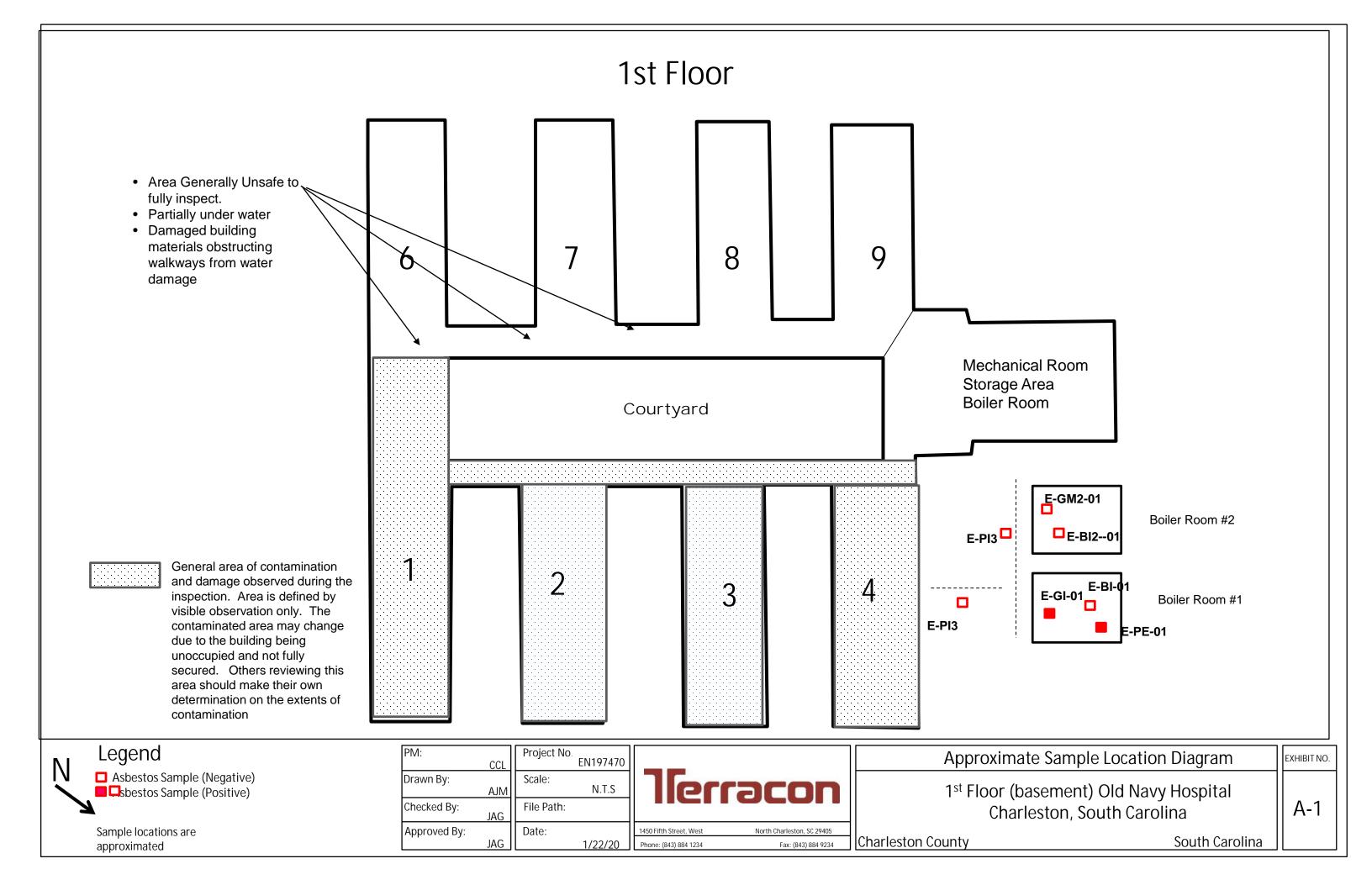
¹⁾ Results above the SCDHEC regulatory limit (0.06%) must be disposed of properly.

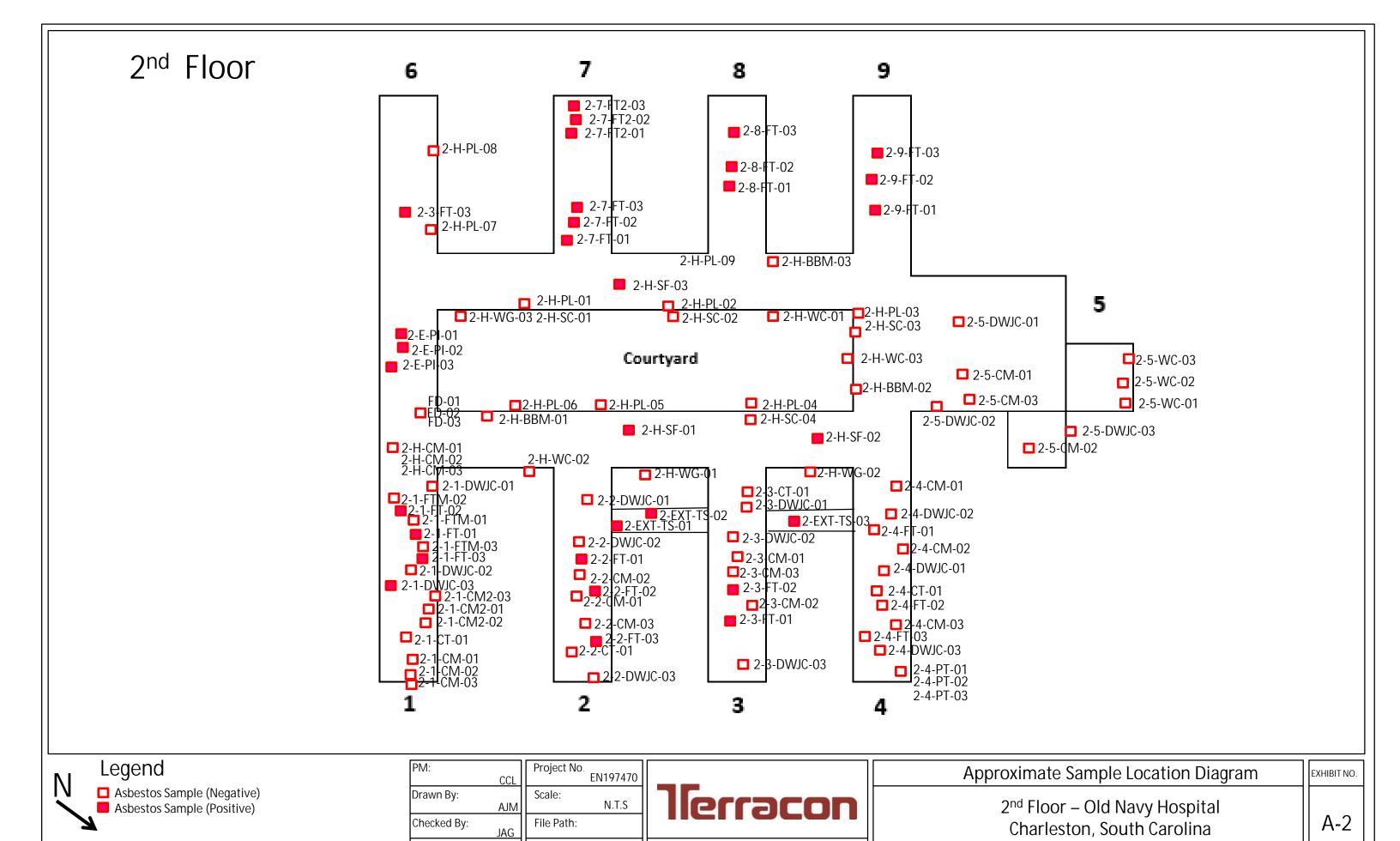
²⁾ Results in BOLD face were found above action levels.

³⁾ OSHA Lead in Construction standard must be followed.

⁴⁾ Please refer to sample diagrams for sample locations.







1450 Fifth Street, West

Phone: (843) 884 1234

North Charleston, SC 29405

Fax: (843) 884 9234

Charleston County

South Carolina

Date:

2/20/20

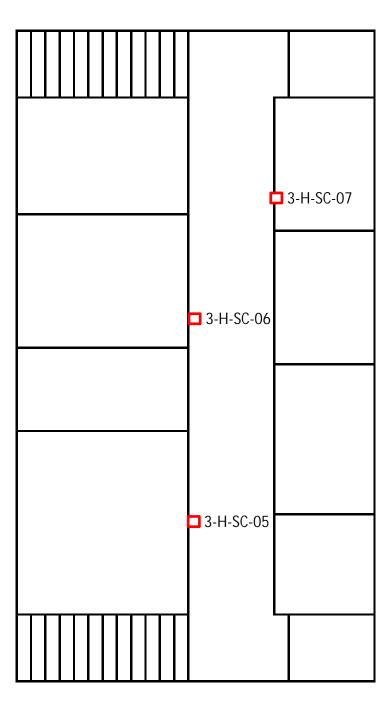
JAG

Approved By:

Sample locations are

approximated

3rd Floor





approximated

PM:
CCL
Drawn By:
AJM
Checked By:
JAG
Approved By:
JAG

Project No.
EN197470

Scale:
N.T.S

File Path:
Date:
2/20/20



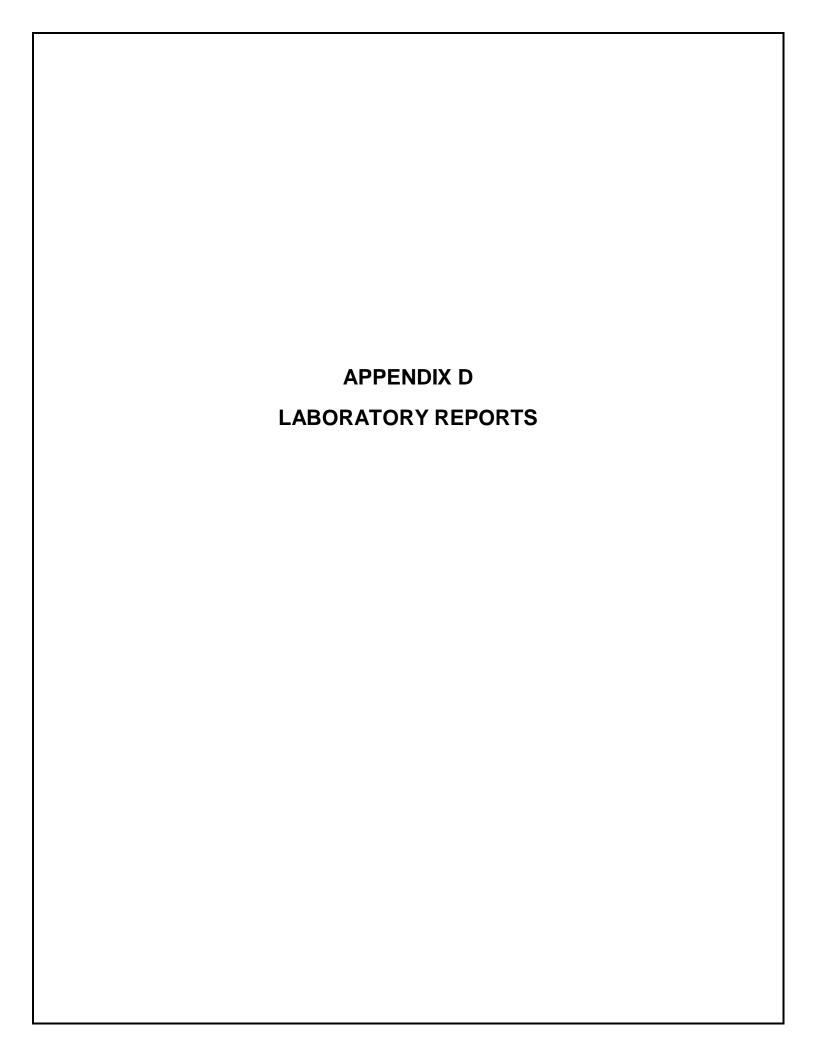
Approximate Sample Location Diagram

3rd Floor - Old Navy Hospital North Charleston, South Carolina

South Carolina

EXHIBIT NO.

A-3





1450 Fifth Street West

North Charleston, SC 29405

EMSL Order: 412000831 Customer ID: WPCE62 Customer PO: EN197470

Project ID:

Phone: (843) 884-1234

Fax: (843) 884-9234

Received Date: 01/27/2020 11:00 AM **Analysis Date:** 01/28/2020 - 01/29/2020

Collected Date: 01/23/2020

Project: EN197470

Attention: Andrew Mitroka

Terracon, Inc.

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			<u>stos</u>	<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
2-1-DWJC-01-Drywall 412000831-0001 No joint compound present	2nd Floor - 1st Wing - Drywall & Joint Compound	Gray Fibrous Homogeneous	8% Cellulose 2% Glass	90% Non-fibrous (Other)	None Detected
2-1-DWJC-02-Drywall 412000831-0002 No joint compound present	2nd Floor - 1st Wing - Drywall & Joint Compound	Gray Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
2-1-DWJC-03-Drywall	2nd Floor - 1st Wing - Drywall & Joint Compound	Brown/Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
2-1-DWJC-03-Joint Compound 412000831-0003A	2nd Floor - 1st Wing - Drywall & Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 58% Non-fibrous (Other)	2% Chrysotile
2-1-CT-01 412000831-0004	2nd Floor - 1st Wing - Ceiling Tile	Gray/White Fibrous Heterogeneous	60% Cellulose 10% Glass	15% Perlite 15% Non-fibrous (Other)	None Detected
2-1-CM-01 412000831-0005 Sample not submitted	2nd Floor - 1st Wing - 12" Green Tile - Orange Mastic				Not Submitted
2-1-CM-02-Mastic 412000831-0006 No flooring present	2nd Floor - 1st Wing - 12" Green Tile - Orange Mastic	Green Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
2-1-CM2-01-Backing	2nd Floor - 1st Wing - Orange Carpet Mastic	Orange Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
2-1-CM2-01-Mastic	2nd Floor - 1st Wing - Orange Carpet Mastic	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
2-1-CM2-02-Backing	2nd Floor - 1st Wing - Orange Carpet Mastic	Orange Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
2-1-CM2-02-Mastic	2nd Floor - 1st Wing - Orange Carpet Mastic	Yellow Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
2-1-CM2-03-Backing	2nd Floor - 1st Wing - Orange Carpet Mastic	Orange Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
2-1-FTM-01 412000831-0011	2nd Floor - 1st Wing - Black Floor Tile Mastic	Black Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	<1% Chrysotile
2-1-FTM-02 412000831-0012	2nd Floor - 1st Wing - Black Floor Tile Mastic	Black Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	<1% Chrysotile

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbes	<u>stos</u>	<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type		
2-H-SF-01-Flooring	Hallway - 2nd Floor - Tan Sheet Flooring & Orange Mastic	Gray/White Fibrous Heterogeneous		88% Non-fibrous (Other)	12% Chrysotile		
2-H-SF-01-Mastic	Hallway - 2nd Floor - Tan Sheet Flooring &	Tan Non-Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected		
412000831-0014A	Orange Mastic	Homogeneous					
2-H-SF-02-Flooring	Hallway - 2nd Floor - Tan Sheet Flooring &	Tan Fibrous	5% Cellulose	80% Non-fibrous (Other)	15% Chrysotile		
412000831-0015	Orange Mastic	Homogeneous					
2-H-SF-02-Mastic	Hallway - 2nd Floor - Tan Sheet Flooring & Orange Mastic	Tan Non-Fibrous Homogeneous	2% Cellulose 1% Glass	5% Ca Carbonate 92% Non-fibrous (Other)	None Detected		
	-	-		50/ On Onthornata	News Datastad		
2-H-BBM-01-Mastic	Entire 2nd Floor - Black Baseboard & Beige Mastic	Brown/Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected		
No baseboard present	Boigo Madao	Homogonoodo					
2-H-BBM-02-Mastic	Entire 2nd Floor - Black Baseboard &	Brown Non-Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected		
412000831-0018 No baseboard present	Beige Mastic	Homogeneous					
2-H-CM-01	Hallway outside of 1st Wing - Orange Mastic	Tan Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected		
412000831-0020	under Blue Carpet	Homogeneous					
2-H-CM-02	Hallway outside of 1st Wing - Orange Mastic	Tan Non-Fibrous	1% Cellulose	5% Ca Carbonate 94% Non-fibrous (Other)	None Detected		
412000831-0021	under Blue Carpet	Homogeneous					
2-H-WG-01	Windows - 2nd Floor - Beige Window	Tan/White Non-Fibrous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected		
412000831-0023	Glazing	Homogeneous					
2-H-WG-02 412000831-0024	Windows - 2nd Floor - Beige Window Glazing	Tan/White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected		
	Windows - 2nd Floor -	Tan/White		20% Ca Carbonate	None Detected		
2-H-WC-01 412000831-0026	White Window Glazing	Non-Fibrous Homogeneous		80% Non-fibrous (Other)	None Detected		
2-H-WC-02	Windows - 2nd Floor -	Gray/White		30% Ca Carbonate	None Detected		
412000831-0027	White Window Glazing	Non-Fibrous Homogeneous		70% Non-fibrous (Other)	None Beleded		
2-2-CM-01	2nd Floor - 2nd Wing - Orange Carpet	Brown/Tan Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected		
412000831-0029	Mastic	Homogeneous					
2-2-CM-02	2nd Floor - 2nd Wing - Orange Carpet	Gray/Tan Non-Fibrous	1% Cellulose	10% Ca Carbonate 89% Non-fibrous (Other)	None Detected		
412000831-0030	Mastic	Homogeneous					
2-2-CT-01	2nd Floor - 2nd Wing - White Ceiling Tile	Gray/White Fibrous	60% Cellulose 15% Min. Wool	20% Perlite 5% Non-fibrous (Other)	None Detected		
412000831-0032	Oct Floor C. 1347	Homogeneous	400/ 0 " '	000/ Nov. 5/	Maria D. C. C. C.		
2-2-DWJC-01-Drywall	2nd Floor - 2nd Wing - Drywall & Joint Compound	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected		
2-2-DWJC-01-Joint	2nd Floor - 2nd Wing	White		40% Ca Carbonate	None Detected		
Compound	- Drywall & Joint Compound	Non-Fibrous Homogeneous		60% Non-fibrous (Other)	None Detected		
412000831-0033A							
2-2-DWJC-02-Drywall	2nd Floor - 2nd Wing - Drywall & Joint	Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected		
412000831-0034	Compound	Homogeneous					

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbes	<u>stos</u>	<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type		
2-2-DWJC-02-Joint Compound	2nd Floor - 2nd Wing - Drywall & Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected		
412000831-0034A							
2-2-DWJC-03-Drywall	2nd Floor - 2nd Wing - Drywall & Joint	Brown/Gray Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected		
412000831-0035	Compound	Homogeneous		400/ Co Corbonata	Nama Datastad		
2-2-DWJC-03-Joint Compound	2nd Floor - 2nd Wing - Drywall & Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected		
412000831-0035A							
2-3-DWJC-01-Drywall 412000831-0036	2nd Floor - 3rd Wing - Drywall & Joint Compound	Gray Non-Fibrous Homogeneous	6% Cellulose	94% Non-fibrous (Other)	None Detected		
2-3-DWJC-01-Joint	2nd Floor - 3rd Wing -	White		40% Ca Carbonate	None Detected		
Compound	Drywall & Joint Compound	Non-Fibrous Homogeneous		60% Non-fibrous (Other)	.16.16 20.00.00		
412000831-0036A							
2-3-DWJC-02-Drywall 412000831-0037	2nd Floor - 3rd Wing - Drywall & Joint Compound	Gray Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected		
2-3-DWJC-02-Joint	2nd Floor - 3rd Wing -	White		40% Ca Carbonate	None Detected		
Compound	Drywall & Joint Compound	Non-Fibrous Homogeneous		60% Non-fibrous (Other)	None Beleviou		
412000831-0037A							
2-3-DWJC-03-Drywall	2nd Floor - 3rd Wing - Drywall & Joint Compound	Brown/Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected		
2-3-DWJC-03-Joint	2nd Floor - 3rd Wing -	White		40% Ca Carbonate	None Detected		
Compound	Drywall & Joint Compound	Non-Fibrous Homogeneous		60% Non-fibrous (Other)	None Detected		
412000831-0038A							
2-3-CT-01	2nd Floor - 3rd Wing - Ceiling Tile	Gray/White Fibrous	60% Cellulose 10% Min. Wool	15% Perlite 15% Non-fibrous (Other)	None Detected		
412000831-0039		Heterogeneous					
2-3-CM-01 412000831-0040	2nd Floor - 3rd Wing - Orange Carpet Mastic	Gray/Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	<1% Chrysotile		
2-3-CM-02	2nd Floor - 3rd Wing -	Tan	1% Cellulose	5% Ca Carbonate	<1% Chrysotile		
412000831-0041	Orange Carpet Mastic	Non-Fibrous Homogeneous	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	94% Non-fibrous (Other)	,		
2-3-FT-01-Top Mastic	2nd Floor - 3rd Wing - Tan Floor Tile with	Gray/Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected		
412000831-0043	Black Mastic	Homogeneous		40% 0 - 0 - 1	00/ Ohr. ("		
2-3-FT-01-Floor Tile 412000831-0043A	2nd Floor - 3rd Wing - Tan Floor Tile with Black Mastic	Gray Non-Fibrous Homogeneous		12% Ca Carbonate 80% Non-fibrous (Other)	8% Chrysotile		
2-3-FT-01-Bottom	2nd Floor - 3rd Wing -	Black		100% Non-fibrous (Other)	<1% Chrysotile		
Mastic	Tan Floor Tile with Black Mastic	Non-Fibrous Homogeneous		100 % HOHEIDIOUS (Other)	-170 Onlysoule		
412000831-0043B Possible contamination							
2-3-FT-02-Top Mastic	2nd Floor - 3rd Wing - Tan Floor Tile with	Tan Non-Fibrous	1% Cellulose	5% Ca Carbonate 94% Non-fibrous (Other)	None Detected		
412000831-0044 2-3-FT-02-Floor Tile	2nd Floor - 3rd Wing -	Homogeneous Gray		90% Non-fibrous (Other)	10% Chrysotile		
412000831-0044A	Tan Floor Tile with Black Mastic	Non-Fibrous Homogeneous					

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbesto	<u>s</u>	<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type		
2-3-FT-02-Bottom Mastic	2nd Floor - 3rd Wing - Tan Floor Tile with Black Mastic	Black Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected		
<u>412000831-0044B</u> 2-4-CM-01 412000831-0046	2nd Floor - 4th Wing - Carpet Mastic	Brown/Gray/Tan Non-Fibrous Homogeneous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	<1% Chrysotile		
Result includes a small amou	ınt of inseparable attached mat	erial					
2-4-CM-02	2nd Floor - 4th Wing - Carpet Mastic	Brown/Tan Non-Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected		
412000831-0047	Ond Flags 445 \\/ins	Homogeneous	450/ Callulana	000/ Non Shara (Othor)	Name Detected		
2-4-PT-01 412000831-0049	2nd Floor - 4th Wing - Pipe Tape	Tan/White/Silver Non-Fibrous Homogeneous	15% Cellulose 5% Glass	80% Non-fibrous (Other)	None Detected		
2-4-PT-02	2nd Floor - 4th Wing - Pipe Tape	Tan/White/Silver Non-Fibrous	15% Cellulose 5% Glass	80% Non-fibrous (Other)	None Detected		
412000831-0050	т тре таре	Homogeneous	0 / 0 Gla33				
2-4-PT-03	2nd Floor - 4th Wing - Pipe Tape	Gray/White/Silver Fibrous	10% Cellulose 5% Glass	15% Ca Carbonate 70% Non-fibrous (Other)	None Detected		
412000831-0051		Homogeneous					
2-4-CT-01	2nd Floor - 4th Wing - Ceiling Tile	Gray/White Fibrous	60% Cellulose 15% Min. Wool	20% Perlite 5% Non-fibrous (Other)	None Detected		
412000831-0052		Homogeneous					
2-5-CM-01	2nd Floor - 5th Wing - Orange Carpet Mastic	Tan Non-Fibrous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected		
412000831-0053		Homogeneous					
2-5-CM-02 412000831-0054	2nd Floor - 5th Wing - Orange Carpet Mastic	Brown/Tan Non-Fibrous Homogeneous	1% Cellulose 1% Synthetic	10% Ca Carbonate 88% Non-fibrous (Other)	None Detected		
2-5-WC-01	2nd Floor - 5th Wing -	Brown	<1% Fibrous (Other)	100% Non-fibrous (Other)	None Detected		
412000831-0056	Brown Wall Caulking	Non-Fibrous Homogeneous	<1701 ibious (Ottlet)	100 % Nort-librous (Other)	None Detected		
2-5-WC-02	2nd Floor - 5th Wing - Brown Wall Caulking	Brown Non-Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected		
412000831-0057	3	Homogeneous					
2-5-DWJC-01-Drywall	2nd Floor - 5th Wing - Drywall & Joint	Gray Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected		
412000831-0059	Compound	Homogeneous					
2-5-DWJC-01-Joint Compound	2nd Floor - 5th Wing - Drywall & Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected		
412000831-0059A							
2-5-DWJC-02-Drywall	2nd Floor - 5th Wing - Drywall & Joint	Gray Fibrous	5% Cellulose 1% Glass	94% Non-fibrous (Other)	None Detected		
412000831-0060	Compound	Heterogeneous		100/ 0 - 0 - 1	News Def. 1.1		
2-5-DWJC-02-Joint Compound	2nd Floor - 5th Wing - Drywall & Joint Compound	White/Rust Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected		
412000831-0060A							
2-5-DWJC-03-Drywall	2nd Floor - 5th Wing - Drywall & Joint	Gray Fibrous	5% Cellulose	95% Non-fibrous (Other)	None Detected		
412000831-0061	Compound	Homogeneous					
2-5-DWJC-03-Joint Compound	2nd Floor - 5th Wing - Drywall & Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected		
412000831-0061A							

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description		Non-Asbestos		Asbestos
		Appearance	% Fibrous	% Non-Fibrous	% Type
1-FT1-01-Floor Tile	1st Floor - H, 2, 3 - 12" Tan Tile	Brown Non-Fibrous Homogeneous		20% Ca Carbonate 78% Non-fibrous (Other)	2% Chrysotile
1-FT1-01-Mastic	1st Floor - H, 2, 3 - 12" Tan Tile	Black Non-Fibrous		94% Non-fibrous (Other)	6% Chrysotile
412000831-0062A	12 Tall file	Homogeneous			
1-FT1-02-Floor Tile	1st Floor - H, 2, 3 - 12" Tan Tile	Tan Non-Fibrous		30% Ca Carbonate 66% Non-fibrous (Other)	4% Chrysotile
412000831-0063		Homogeneous			
1-FT1-02-Mastic	1st Floor - H, 2, 3 - 12" Tan Tile	Black Non-Fibrous		94% Non-fibrous (Other)	6% Chrysotile
412000831-0063A		Homogeneous			
1-FT2-01-Floor Tile	1st Floor - 9" Green Tile	Green Non-Fibrous		20% Ca Carbonate 77% Non-fibrous (Other)	3% Chrysotile
412000831-0065		Homogeneous			
1-FT2-01-Mastic 412000831-0065A	1st Floor - 9" Green Tile	Black Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
1-FT2-02-Floor Tile	1st Floor - 9" Green	Green		30% Ca Carbonate	4% Chrysotile
412000831-0066	Tile	Non-Fibrous Homogeneous		66% Non-fibrous (Other)	4% Chrysothe
1-FT2-02-Mastic	1st Floor - 9" Green Tile	Black Non-Fibrous	1% Cellulose	99% Non-fibrous (Other)	None Detected
412000831-0066A	Tile	Homogeneous			
1-AT-01	1st Floor - Acoustic Tile	Gray Non-Fibrous	70% Min. Wool	5% Ca Carbonate 25% Non-fibrous (Other)	None Detected
412000831-0068		Homogeneous		, ,	
1-AT-02	1st Floor - Acoustic Tile	Gray/White Non-Fibrous	70% Min. Wool	5% Ca Carbonate 25% Non-fibrous (Other)	None Detected
412000831-0069		Homogeneous			
1-AT-03	1st Floor - Acoustic Tile	Gray/White Fibrous	75% Min. Wool	25% Non-fibrous (Other)	None Detected
412000831-0070		Homogeneous	50/ 0 11 1	0.497 N 51 (0.41)	N 5 / / /
1-WB-01-Drywall 412000831-0071	1st Floor - 4, 4, 4, 3, 3, 2, 2, 2, 1 - Wallboard & Joint Compound	Gray Fibrous Homogeneous	5% Cellulose 1% Glass	94% Non-fibrous (Other)	None Detected
 1-WB-01-Joint	1st Floor - 4, 4, 4, 3,	White/Rust		40% Ca Carbonate	None Detected
Compound	3, 2, 2, 2, 1 - Wallboard & Joint	Non-Fibrous Homogeneous		60% Non-fibrous (Other)	INOTIC DETECTED
412000831-0071A	Compound				
1-WB-02-Drywall	1st Floor - 4, 4, 4, 3,	Gray	4% Cellulose	95% Non-fibrous (Other)	None Detected
412000831-0072	3, 2, 2, 1 - Wallboard & Joint Compound	Fibrous Homogeneous	1% Glass		
1-WB-02-Joint	1st Floor - 4, 4, 4, 3,	White/Rust		40% Ca Carbonate	None Detected
Compound	3, 2, 2, 2, 1 - Wallboard & Joint	Non-Fibrous Homogeneous		60% Non-fibrous (Other)	
412000831-0072A	Compound				
1-WB-03-Drywall	1st Floor - 4, 4, 4, 3, 3, 2, 2, 2, 1 - Wallboard & Joint	Gray Fibrous Heterogeneous	3% Cellulose 1% Glass	96% Non-fibrous (Other)	None Detected
	Compound	-			
1-WB-03-Joint Compound	1st Floor - 4, 4, 4, 3, 3, 2, 2, 2, 1 - Wallboard & Joint	White/Rust Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
412000831-0073A	Compound				

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Non-Asbestos			Asbestos
		Appearance	% Fibrous	% Non-Fibrous	% Type
1-WB-04-Drywall 412000831-0074	1st Floor - 4, 4, 4, 3, 3, 2, 2, 2, 1 - Wallboard & Joint Compound	Gray Fibrous Homogeneous	5% Cellulose 1% Glass	94% Non-fibrous (Other)	None Detected
1-WB-04-Joint Compound 412000831-0074A	1st Floor - 4, 4, 4, 3, 3, 2, 2, 2, 1 - Wallboard & Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
1-WB-05-Drywall 412000831-0075	1st Floor - 4, 4, 4, 3, 3, 2, 2, 2, 1 - Wallboard & Joint Compound	Gray Fibrous Heterogeneous	5% Cellulose 1% Glass	94% Non-fibrous (Other)	None Detected
1-WB-05-Joint Compound 412000831-0075A	1st Floor - 4, 4, 4, 3, 3, 2, 2, 2, 1 - Wallboard & Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
1-WB-06-Drywall 412000831-0076	1st Floor - 4, 4, 4, 3, 3, 2, 2, 2, 1 - Wallboard & Joint Compound	Gray Fibrous Heterogeneous	5% Cellulose 1% Glass	94% Non-fibrous (Other)	None Detected
1-WB-06-Joint Compound	1st Floor - 4, 4, 4, 3, 3, 2, 2, 2, 1 - Wallboard & Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
1-WB-07-Drywall	1st Floor - 4, 4, 4, 3, 3, 2, 2, 2, 1 - Wallboard & Joint Compound	Brown/Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
1-WB-07-Joint Compound 412000831-0077A	1st Floor - 4, 4, 4, 3, 3, 2, 2, 2, 1 - Wallboard & Joint Compound	Tan Non-Fibrous Homogeneous		40% Ca Carbonate 58% Non-fibrous (Other)	2% Chrysotile
1-WB-08-Joint Compound 412000831-0078 No drywall present	1st Floor - 4, 4, 4, 3, 3, 2, 2, 2, 1 - Wallboard & Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
1-WB-09-Joint Compound 412000831-0079 No drywall present	1st Floor - 4, 4, 4, 3, 3, 2, 2, 2, 1 - Wallboard & Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
1-WB-10-Joint Compound 412000831-0080 No drywall present	1st Floor - 4, 4, 4, 3, 3, 2, 2, 2, 1 - Wallboard & Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
1-WB-11-Joint Compound 412000831-0081 No drywall present	1st Floor - 4, 4, 4, 3, 3, 2, 2, 2, 1 - Wallboard & Joint Compound	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
RF-01 412000831-0082	Roof - Roof & Felt	Black Non-Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
RF-02 412000831-0083	Roof - Roof & Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected



Project ID:

Analyst(s)

Eric Loomis (56) Katherine Sluder (40) Lee Plumley, Laboratory Manager or Other Approved Signatory

Evan L Plumber

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312



Project ID:

 Attention:
 Andrew Mitroka
 Phone:
 (843) 884-1234

 Terracon, Inc.
 Fax:
 (843) 884-9234

1450 Fifth Street West Received Date: 01/27/2020 11:00 AM

North Charleston, SC 29405 Analysis Date: 01/28/2020 Collected Date: 01/23/2020

Project: EN197470

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
2-1-CM-03 412000831-0007	2nd Floor - 1st Wing - 12" Green Tile - Orange Mastic	Green Non-Fibrous Homogeneous	99.44 Other	None	0.56% Chrysotile
2-1-CM2-03-Mastic 412000831-0010	2nd Floor - 1st Wing - Orange Carpet Mastic	Red Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
2-1-FTM-03 412000831-0013	2nd Floor - 1st Wing - Black Floor Tile Mastic	Black Non-Fibrous Homogeneous	99.32 Other	None	0.68% Chrysotile
2-H-SF-03-Flooring 412000831-0016	Hallway - 2nd Floor - Tan Sheet Flooring & Orange Mastic				
Positive S	top (Not Analyzed)				
2-H-SF-03-Mastic 412000831-0016A	Hallway - 2nd Floor - Tan Sheet Flooring & Orange Mastic	Brown Non-Fibrous Homogeneous	99.42 Other	None	0.58% Chrysotile
2-H-BBM-03-Mastic 412000831-0019	Entire 2nd Floor - Black Baseboard & Beige Mastic	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
			No baseboard present		
2-H-CM-03 412000831-0022	Hallway outside of 1st Wing - Orange Mastic under Blue Carpet	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
2-H-WG-03 412000831-0025	Windows - 2nd Floor - Beige Window Glazing	Gray Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
2-H-WC-03 412000831-0028	Windows - 2nd Floor - White Window Glazing	Gray Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
2-2-CM-03 412000831-0031	2nd Floor - 2nd Wing - Orange Carpet Mastic	Brown Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
2-3-CM-03 412000831-0042	2nd Floor - 3rd Wing - Orange Carpet Mastic	Tan Non-Fibrous Homogeneous	99.42 Other	None	0.58% Chrysotile
2-3-FT-03-Top Mastic 412000831-0045	2nd Floor - 3rd Wing - Tan Floor Tile with Black Mastic	Tan Non-Fibrous Homogeneous	100.0 Other	None	<0.69% Chrysotile

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 01/29/2020 10:22:56



North Charleston, SC 29405

EMSL Order: 412000831 Customer ID: WPCE62 Customer PO: EN197470

Project ID:

Phone: (843) 884-1234 Fax: (843) 884-9234

Received Date: 01/27/2020 11:00 AM

Analysis Date: 01/28/2020 **Collected Date:** 01/23/2020

Project: EN197470

Attention: Andrew Mitroka

Terracon, Inc.

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
2-3-FT-03-Floor Tile 412000831-0045A	2nd Floor - 3rd Wing - Tan Floor Tile with Black Mastic				
Positive S	top (Not Analyzed)				
2-3-FT-03-Bottom Mastic 412000831-0045B	2nd Floor - 3rd Wing - Tan Floor Tile with Black Mastic	Black Non-Fibrous Homogeneous	100.0 Other	None	<0.38% Chrysotile
2-4-CM-03 412000831-0048	2nd Floor - 4th Wing - Carpet Mastic	Tan Non-Fibrous Homogeneous	99.39 Other	None	0.61% Chrysotile
2-5-CM-03 412000831-0055	2nd Floor - 5th Wing - Orange Carpet Mastic	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
2-5-WC-03 412000831-0058	2nd Floor - 5th Wing - Brown Wall Caulking	Brown Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
1-FT1-03-Floor Tile 412000831-0064	1st Floor - H, 2, 3 - 12" Tan Tile				
Positive S	top (Not Analyzed)				
1-FT1-03-Mastic 412000831-0064A	1st Floor - H, 2, 3 - 12" Tan Tile				
Positive S	top (Not Analyzed)				
1-FT2-03-Floor Tile 412000831-0067	1st Floor - 9" Green Tile				
Positive S	top (Not Analyzed)				
1-FT2-03-Mastic 412000831-0067A	1st Floor - 9" Green Tile	Tan/Black Non-Fibrous Homogeneous	99.73 Other	None	0.27% Chrysotile
RF-03 412000831-0084	Roof - Roof & Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 01/29/2020 10:22:56



Project ID:

 Attention:
 Andrew Mitroka
 Phone:
 (843) 884-1234

 Terracon, Inc.
 Fax:
 (843) 884-9234

 1450 Fifth Street West
 Received Date:
 01/27/2020 11:00 AM

 North Charleston, SC 29405
 Analysis Date:
 01/28/2020

Collected Date: 01/23/2020
Project: EN197470

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID Description Appearance % Matrix Material % Non-Asbestos Fibers Asbestos Types

Analyst(s)

Derrick Young (17)

Lee Plumley, Laboratory Manager or other approved signatory

Evan L Plumley

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC

Initial report from: 01/29/2020 10:22:56



Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077

PHONE: (800) 220-3675 FAX: (856) 786-5974

412000831

Company:	7	cllacon			Bill to is Different note in		
Street:		5th St. 1	West	Third Party	Billing requires writte	en authorization fro	om third party
City: N	olth (Charleston	State/Province: SC	Zip/Postal Code	:	Country:	
Report To (Name):	Andrew N	1. to lea	Telephone #:			
Email Addr	ess:	Ardiew. Mit	ioka D terrocon. con	Fax #:		Purchase Ord	er:
Project Nar		ber: ENI9	7470	Please Provide	Results: 🗌 Fax		
U.S. State S	Samples	Taken: SC				cable Reside	ential/Tax Exempt
☐ 3 Hour	ПП	6 Hour	Turnaround Time (T		96 Hour	☐ 1 Week	☐ 2 Week
*For TEM Air	3 hr through	gh 6 hr, please call	ahead to schedule.*There is a p	remium charge for 3 Hou	IT TEM AHERA OF EP	A Level II TAT. You	will be asked to sign
an au		form for this service I - Bulk (reporti	e. Analysis completed in accor	dance with EMSL's Terri	ns and Conditions loca TEM –		Price Guide.
M PLM EP		93/116 (<1%)	19 111117	☑ TEM EPA NOB			5.1
☐ PLM EP				☐ NY ELAP Metho			
		(<0.25%) 🔲 100	00 (<0.1%)	☐ Chatfield Protoc	col (semi-quantitat	ive)	
Point Count	w/Gravir	metric 400 (<	0.25%) 🗌 1000 (<0.1%)	☐ TEM % by Mass	s - EPA 600/R-93	/116 Section 2.5	.5.2
☐ NIOSH	9002 (<1	%)		☐ TEM Qualitative	via Filtration Prep	p Technique	
The state of the s		d 198.1 (friable i	The state of the s	☐ TEM Qualitative	via Drop Mount F	Prep Technique	Les et la la company
		d 198.6 NOB (no	on-friable-NY)		Oth	<u>er</u>	
OSHA II							
Standar	d Additio	n Method				1	
☐ Check F	or Posit	ive Stop - Clea	rly Identify Homogenous	Group Date Sam	pled:	1-53-50	
Samplers N	Name:	Andrew 1	Mitrolen	Samplers Sig	nature:	2	
Sample #	114.4						
	HA#		Sample Location		M	laterial Descript	tion
2-1-DWJC-	1	2nd	Floor - 1st w	10		1947291	
2-1-DWJC-	293				Diywo	all & Joint	Compand
2-1-DW3C- 01/03 2-1-CT- 01 2-1-CM-	1	Znd	Floor - Ist Wi	ne	Dry we Ceiling	all \$ Joint 1	Compand ATEM NOB
2-1-DWJC- 01/03 2-1-CT- 01 2-1-CM- 01/03 2-1-CM2	1 2	2nd 2nd	Floor - 1st W: Floor - 1st W: Floor - 1st W	ing	Dry wo Ceiling 12" Gree	all & Joint 1 tile n file - 000	ETEM NOB
2-1-DWJC- 01/03 2-1-CT- 01/03 2-1-CM2- 01/03 2-1-FTM-	2 3	2nd 2nd 2nd	Floor - Ist Wi Floor - Ist Wi Floor - Ist W	ing Ding	Dry wo Ceiling 12" Bree Orange	all & Joint 1 tile n file - 000 coupet mos	Compound ATEM NOB ME Mastic TEM NOB Stic
2-1-DWJC- 01/03 2-1-CT- 01/03 2-1-CM2- 01/03 2-1-FTM- 01/03 2-1-SF	1 2 3 4	Znd Znd Znd Znd	Floor - Ist Wi Floor - Ist Wi Floor - Ist G Floor - Ist C	ing Wing Wing	Ory wo Ceiling 12" Bree Orange	all \$ Joint 1 tile n file - 000 carpet mass c Floor til	Compound *TEM NOB *TEM NOB *TEM NOB *MOST'C *TEM NOB
2-1-DWJC 01/03 2-1-CT- 01/03 2-1-CM2- 01/03 2-1-FTM- 01/03	12375	Znd Znd Znd Znd Hall	Floor - Ist Wi Floor - Ist Wi Floor - Ist W Floor - Ist i Floor - Ist	ing Wing Wing	Dry wo Ceiling 12" Gree Orange of Black	tile file file file carpet mas carpet flooring	Compound ATEM NOB ME Mastic ATEM NOB MASTIC ATEM NOB MOSTIC ATEM NOB TOMOR MOSTIC
2-1-DWJC 01/03 2-1-CT- 01/03 2-1-CM2- 01/03 2-1-FTM- 01/03 2-H-SF 01/03 2-H-BBM- 01/03 1-H-CM-	123156	Znd Znd Znd Znd Hall Enti	Floor - Ist Wi Floor - Ist Wi Floor - Ist W Floor - Ist i Floor - Ist i Vay - Ind Floor	ing Wing Wing	Ory wo Ceiling 12" Bree Orange (Black Tan sher Black b	all \$ Joint 1 file n file - 000 carpet mas carpet	Compound MTEM NOB ME MOSTIC MTEM NOB MASTIC MTEM NOB MOSTIC MEMOST MEM
2-1-DWJC- 01/03 2-1-CM- 01/03 2-1-CM2- 01/03 2-1-FTM- 01/03 2-4-SF 01/03 2-H-BBM- 01/03	1234567	Znd Znd Znd Znd Hall Enti	Floor - 1st Wi Floor - 1st Wi Floor - 1st W Floor - 1st C Floor - 1st C Floor - 1st C Floor - 1st C Transport - 2nd Floor The 2nd Floor The 2nd Floor	ing wing Wing wor	Ory was Ceiling 12" Gree Orange Black Tan sher Black b Orange	all \$ Joint 1 file n file - 000 carpet mas carpet	Compound MTEM NOB METEM NOB TEM NOB MASTIC MTEM NOB MOSTIC MEM NOB MOSTIC MEM NOB MOSTIC MEM NOB MOSTIC MEM NOB MEM
2-1-DWJC- 01/03 2-1-CM- 01/03 2-1-CM2- 01/03 2-1-FTM- 01/03 2-H-SF 01/03 2-H-CM- 01/03 2-H-CM- 01/03 2-H-CM-	12375678	Znd Znd Znd Znd Hall Entir	Floor - 1st Wi Floor - 1st Wi Floor - 1st W Floor - 1st C Floor - 1st C Floor - 1st C Floor - 1st C Transport - 2nd Floor The 2nd Floor The 2nd Floor	ng Wing Wing t Wing	Ory was Ceiling 12" Gree Orange Black Tan sher Black b Orange beige wi	all & Joint 1 tile n file - 000 corpet mos c Floor til et flooring ase board: mastic u	Compound MTEM NOB METEM NOB TEM NOB MASTIC MTEM NOB MOSTIC MEM NOB MOSTIC MEM NOB MOSTIC MEM NOB MOSTIC MEM NOB MEM
2-1-DWJC 01/03 2-1-CT- 01/03 2-1-CM2- 01/03 2-1-FTM- 01/03 2-H-SF 01/03 2-H-CM- 01/03 2-H-CM- 01/03 2-H-WG	1234567890	Znd Znd Znd Znd Hall Enti Hallway Windo	Floor - Ist Wi Floor - Ist Wi Floor - Ist W Floor - Ist i Floor - Ist i Floor - Ist way - Ind Floor outside of Is	ng Wing Wing t Wing	Ory wo Ceiling 12" Gree Orange Black Tan sher Black b Orange beize wi white wi	all \$ Joint 1 tile file - 010 carpet mas carpet ma	Compound MTEM NOB METEM NOB TEM NOB MASTIC MTEM NOB MOSTIC MEM NOB MOSTIC MEM NOB MOSTIC MEM NOB MOSTIC MEM NOB MEM
2-1-DWJC- 01/03 2-1-CT- 01/03 2-1-CM2- 01/03 2-1-FTM- 01/03 2-1-SF 01/03 2-1-CM- 01/03 2-1-CM- 01/03 2-1-WG 01/03 2-1-WC 01/03	1 2 3 4 5 6 7 8 9 10	Znd Znd Znd Znd Znd Hall Entit Hallway Windo	Floor - 1st Wi Floor - 1st Wi Floor - 1st Wi Floor - 1st C Floor - 1st C Floor - 1st C Floor - 1st C Floor - 1st C Way - 2nd Floor Coutside of 1s Windows - 2nd Floor Windows - 2nd	ing wing Wing bor t Wing Floor	Ceiling Ceiling 12" Gree Orange Black Tan Sher Black b Orange beige wi white wi	all \$ Joint 1 file file file carpet mas carpet ma	Compound MTEM NOB METEM NOB TEM NOB MASTIC MTEM NOB MOSTIC MEM NOB MOSTIC MEM NOB MOSTIC MEM NOB MOSTIC MEM NOB MEM
2-I-DWJC 01/03 2-I-CM- 01/03 2-I-CM2- 01/03 2-I-FTM- 01/03 2-H-SF 01/03 2-H-CM- 01/03 2-H-CM- 01/03 2-H-CM- 01/03 2-H-CM- 01/03 2-H-WC 01/03 Client Sam	1 2 3 4 5 6 7 8 9 10 nple #(s)	Znd Znd Znd Znd Znd Hall Entil Hallway Windo	Floor - 1st Wi Floor - 1st Wi Floor - 1st Wi Floor - 1st i Floor - 1st i Floor - 1st i Floor - 1st i Vie 2nd Floor Coutside of 1s Windows - 2nd Floor Windows - 2nd	ing wing Wing word	Ceiling Ceiling 12" Gree Orange Black Tan Sher Black b Orange beige wi white wi	tile file file file file carpet mas	Compound MTEM NOB ME MOSTIC MTEM NOB MASTIC MTEM NOB MOSTIC MEM NOB MOSTIC MEM NOB MOSTIC MEM NOB MOSTIC MEM NOB ME
2-I-DWJC- 01/03 2-I-CM- 01/03 2-I-CM2- 01/03 2-I-FTM- 01/03 2-H-SF 01/03 2-H-CM- 01/03 2-H-CM- 01/03 2-H-CM- 01/03 2-H-CM- 01/03 2-H-CM- 01/03 2-H-CM- 01/03 2-H-CM- 01/03 2-H-CM- 01/03 2-H-CM- 01/03 2-H-CM- 01/03 Received (1 2 3 4 5 6 7 8 9 10 nple #(s) ned (Clie	Znd Znd Znd Znd Znd Hall Entir	Floor - 1st Wi Floor - 1st Wi Floor - 1st Wi Floor - 1st i Floor - 1st i Floor - 1st i Floor - 1st i Vie 2nd Floor Coutside of 1s Windows - 2nd Floor Windows - 2nd	ing wing Wing Wing Floor te: 1-24-5	Ceiling Ceiling 12" Gree Orange Black Tan Sher Black b Orange beige wi white wi	tile tile tile tile tile carpet mas	Compound ATEM NOB MESTIC ATEM NOB ATEM NOB TOMOS MOSTIC TOMOS MOSTIC TEM NOB METEM NOB MET



Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

				_
41	20008	31		

EMSL ANALYTICAL, INC. 200 ROUTE 130 NORTH CINNAMINSON, NJ 08077

PHONE: (800) 220-3675 FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA#	Sample Location	Material Description
2- Z-CM-	1.0	23	# TEM LOS
01/03	11	2nd Floor - 2nd Wing	Orange carpet mastic
2-2-CT-	12		
01		2nd Floor - 2nd Wing	White ceiling tile
-2-DW2C-	13	2nd Floor - 2nd Wing	Prywall & Joint Compound
-3-0wsc	14	2nd Floor - 3rd Wing	Digwall & Joint Compound
2-3-CT-	15	2nd Floor - 3rd Wing	Ceiling tile
01/03	16	2nd Floor - 3id Wing	Orange carpet mostie
01/03	17	Znd Floor - 3rd Wing	Tan Floor the with Black Mestile
2-4-cm-	18	2nd Floor - 4th Wing	Carpet Mastic ATTEM NOB
7-41-PT- 01/03		2nd Floor - 4th Wing	Pine tope
2-4-CT-		2nd Floor - 4th Wing	Ceiling tile
7-5-CM	21	2nd Floor - 5th Wing	Orange Corpet Westre
7-5-WC-	22	2nd Floor - 5th Wing	brown wall coulding *TEM NO
2-5-005C	23	Znd Floor - Sth Wing	Drywall 3 Joint compound
1-571-	24	1st 9001 (H, 2, 3)	(z" tan tile
01/03	25	1st Roor	9" Spen til
1-AT-	26	1st Floor	Acoustic tile
1-WB -	27	1st Floor (4,4,4,3,3,2,2,2,2,1)	
\$ RF-	78	Roof	Roof & Felt
*Comme	nts/Specia	I Instructions:	

Page ____ of ____ pages



North Charleston, SC 29405

EMSL Order: 412000801 Customer ID: WPCE62 Customer PO: EN197470

Project ID:

Phone: (843) 442-6658

Fax: (843) 884-9234

Received Date: 01/27/2020 8:45 AM

Analysis Date: 01/27/2020 **Collected Date**: 01/24/2020

Project: EN197470 Bldg. NH62

Terracon, Inc.

Attention: Craig Langford

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbe	<u>stos</u>	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
I-PI-01-Wrap	Main Bldg AF - Pipe Insulation	White Non-Fibrous	40% Glass	8% Ca Carbonate 52% Non-fibrous (Other)	None Detected
412000801-0001 I-PI-01-Insulation	Main Bldg AF - Pipe Insulation	Homogeneous White Non-Fibrous	15% Cellulose 2% Glass	8% Ca Carbonate 75% Non-fibrous (Other)	None Detected
412000801-0001A	Ilisulation	Homogeneous	2% Glass	75% Non-librous (Other)	
I-PI-02-Wrap	Main Bldg Wing 2 - Pipe Insulation	White Non-Fibrous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
412000801-0002		Homogeneous			
I-PI-02-Insulation	Main Bldg Wing 2 - Pipe Insulation	White Non-Fibrous		30% Quartz 8% Ca Carbonate	None Detected
412000801-0002A	Main Dida Wing 2	Homogeneous White		62% Non-fibrous (Other) 8% Ca Carbonate	None Detected
I-PI-03-Wrap 412000801-0003	Main Bldg Wing 3 - Pipe Insulation	Fibrous Homogeneous		92% Non-fibrous (Other)	None Detected
I-PI-03-Insulation	Main Bldg Wing 3 - Pipe Insulation	White Non-Fibrous	15% Cellulose	8% Ca Carbonate 77% Non-fibrous (Other)	None Detected
412000801-0003A		Homogeneous			
E-PE-01-Wrap	Ext. Boiler Room - Pipe Elbow	Gray/White Fibrous	40% Glass	8% Ca Carbonate 52% Non-fibrous (Other)	None Detected
412000801-0004		Heterogeneous			
E-PE-01-Insulation	Ext. Boiler Room - Pipe Elbow	Tan Non-Fibrous		98% Non-fibrous (Other)	2% Amosite <1% Chrysotile
412000801-0004A		Homogeneous			
E-PW-01	Ext. Boiler Room - Pipe Wrap	White/Beige Fibrous	60% Cellulose	8% Ca Carbonate 32% Non-fibrous (Other)	None Detected
412000801-0005		Homogeneous	200/ 0 # 1	201 2 2 1 1	N 5 / / /
E-PW-02-Wrap 412000801-0006	Ext. Boiler Room - Pipe Wrap	White Fibrous Homogeneous	60% Cellulose	8% Ca Carbonate 32% Non-fibrous (Other)	None Detected
E-PW-02-Insulation	Ext. Boiler Room - Pipe Wrap	Yellow Fibrous	99% Glass	1% Non-fibrous (Other)	None Detected
412000801-0006A	· ,	Homogeneous			
E-PW-03	Ext. Boiler Room - Pipe Wrap	Gray Fibrous	60% Cellulose 20% Glass	8% Ca Carbonate 12% Non-fibrous (Other)	None Detected
412000801-0007		Homogeneous			
E-GI-01	Ext. Boiler Room - Gasket (Door)	White/Rust Fibrous		40% Non-fibrous (Other)	60% Chrysotile
412000801-0008		Homogeneous			
E-GI-02	Ext. Boiler Room - Gasket (Door)	Tan/Rust Fibrous		40% Non-fibrous (Other)	60% Chrysotile
412000801-0009	E.4 Delle D	Homogeneous		400/ Non El (01)	000/ 61 /"
E-GI-03 412000801-0010	Ext. Boiler Room - Gasket (Door)	Red Fibrous Homogeneous		40% Non-fibrous (Other)	60% Chrysotile
E-DI-01	Ext. Boiler Room - Door Insulation	Brown/Gray Non-Fibrous		30% Quartz 8% Ca Carbonate	None Detected
412000801-0011	2001 Ilibulation	Homogeneous		62% Non-fibrous (Other)	

Initial report from: 01/28/2020 08:08:26

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			3 ,,		
Pamala	Description	Annogrango	Non-Asbes		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
E-DI-02 412000801-0012	Ext. Boiler Room - Door Insulation	Gray Non-Fibrous Homogeneous	5% Min. Wool	30% Quartz 8% Ca Carbonate 57% Non-fibrous (Other)	None Detected
	Est Dellas Dessa		FO/ NA:- NA/I	, ,	News Detected
E-DI-03 412000801-0013	Ext. Boiler Room - Door Insulation	Red Non-Fibrous	5% Min. Wool	30% Quartz 8% Ca Carbonate 57% Non-fibrous (Other)	None Detected
	Est Dallas Dans	Homogeneous	000/ 01	, ,	News Detected
E-PI-01-Wrap	Ext. Boiler Room - Pipe Insulation	White/Blue Fibrous	60% Glass	40% Non-fibrous (Other)	None Detected
112000801-0014		Heterogeneous	450/ 0 # 1	201 0 0 1 1	
E-PI-01-Gray Insulation	Ext. Boiler Room - Pipe Insulation	Gray Non-Fibrous	15% Cellulose	8% Ca Carbonate 15% Mica	None Detected
#12000801-0014A		Homogeneous		62% Non-fibrous (Other)	
E-PI-01-White nsulation	Ext. Boiler Room - Pipe Insulation	White Non-Fibrous	10% Cellulose	8% Ca Carbonate 82% Non-fibrous (Other)	None Detected
112000801-0014B		Homogeneous			
E-PI-02-Wrap	Ext. Boiler Room - Pipe Insulation	White/Blue Fibrous	60% Glass	40% Non-fibrous (Other)	None Detected
412000801-0015	· 	Homogeneous			
E-PI-02-Insulation	Ext. Boiler Room - Pipe Insulation	Gray Non-Fibrous	8% Cellulose	5% Ca Carbonate 15% Mica	None Detected
112000801-0015A		Homogeneous		72% Non-fibrous (Other)	
E-PI-03-Wrap	Ext. Boiler Room - Pipe Insulation	Red Fibrous	60% Glass	40% Non-fibrous (Other)	None Detected
112000801-0016		Homogeneous			
E-PI-03-Insulation	Ext. Boiler Room - Pipe Insulation	Gray Fibrous	5% Cellulose	8% Ca Carbonate 87% Non-fibrous (Other)	None Detected
412000801-0016A		Homogeneous			
E-BI-01	Ext. Boiler Room - Boiler Insulation	Gray/White Non-Fibrous	2% Cellulose 98% Glass		None Detected
112000801-0017		Homogeneous			
E-BI-02	Ext. Boiler Room - Boiler Insulation	Gray/White Fibrous	99% Glass	1% Non-fibrous (Other)	None Detected
112000801-0018		Homogeneous			
E-BI-03	Ext. Boiler Room - Boiler Insulation	Gray Fibrous	99% Glass	1% Non-fibrous (Other)	None Detected
#12000801-0019 = DIMO 0.4	E (B) 5 (Homogeneous	2004 0 :: :	00/ N - 51 (51)	N
E-PW2-01	Ext. Boiler Room 2 - Pipe Wrap	White/Beige Fibrous	98% Cellulose	2% Non-fibrous (Other)	None Detected
#12000801-0020 = DIMO 00	Est Delles D	Homogeneous	700/ 0 " '	000/ Nov. 51 (011)	Mana D. C. C.
=-PW2-02	Ext. Boiler Room 2 - Pipe Wrap	White/Beige Non-Fibrous	70% Cellulose	30% Non-fibrous (Other)	None Detected
#12000801-0021 - DIMO 00	Fut Dallas Davis C	Homogeneous	700/ 0-11-1	200/ Nan Eleaner (Otton)	Mana Detected
E-PW2-03 112000801-0022	Ext. Boiler Room 2 - Pipe Wrap	Tan Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
	Evt Roiler Doom 2	Gray/Rust	95% Class	5% Ca Carbonata	None Detected
E-BI2-01 112000801-0023	Ext. Boiler Room 2 - Boiler Insulation	Non-Fibrous Homogeneous	95% Glass	5% Ca Carbonate	None Detected
	Fut Dailor Danes C	-	0E0/ Cl	50/ Co Co-b	None Datastad
E-BI2-02	Ext. Boiler Room 2 - Boiler Insulation	White/Rust Non-Fibrous Homogeneous	95% Glass	5% Ca Carbonate	None Detected
E-BI2-03	Ext. Boiler Room 2 - Boiler Insulation	Gray Fibrous	99% Glass	1% Non-fibrous (Other)	None Detected
412000801-0025	Doller Haniation	Homogeneous			

Initial report from: 01/28/2020 08:08:26



Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbe	<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
E-GM2-01 412000801-0026	Ext. Boiler Room 2 - Gasket	White Fibrous Homogeneous	85% Glass	15% Non-fibrous (Other)	None Detected
E-GM2-02 412000801-0027	Ext. Boiler Room 2 - Gasket	White Non-Fibrous Homogeneous	80% Glass	20% Non-fibrous (Other)	None Detected
E-GM2-03 412000801-0028	Ext. Boiler Room 2 - Gasket	Gray Fibrous Homogeneous	99% Glass	1% Non-fibrous (Other)	None Detected
E-PI2-01 412000801-0029	Ext. Boiler Room 2 - Outside Pipe Insulation	White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
E-PI2-02 412000801-0030	Ext. Boiler Room 2 - Outside Pipe Insulation	White Fibrous Homogeneous	15% Cellulose 1% Glass	84% Non-fibrous (Other)	None Detected
E-PI2-03 412000801-0031	Ext. Boiler Room 2 - Outside Pipe Insulation	Tan Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
FD-01 412000801-0032	2nd Floor Main - Fire Door	White Non-Fibrous Homogeneous	8% Min. Wool	8% Min. Wool 30% Perlite 62% Non-fibrous (Other)	
FD-02 412000801-0033	2nd Floor Main - Fire Door	Gray/White Non-Fibrous Homogeneous		5% Ca Carbonate 30% Perlite 65% Non-fibrous (Other)	None Detected
FD-03 412000801-0034	2nd Floor Main - Fire Door	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 30% Perlite 65% Non-fibrous (Other)	None Detected

Analyst(s)

Eric Loomis (30)

James Kincheloe (13)

Lee Plumley, Laboratory Manager or Other Approved Signatory

Evan L Plumber

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 01/28/2020 08:08:26



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

4120006801

EMSL ANALYTICAL, INC. 376 CROMPTON STREET CHARLOTTE, NC 28273

> PHONE: 704-525-2205 FAX: 704-525-2382

Company : Terracon	EMSL-Bill to: ⊠ Same ☐ Different If Bill to is Different note instructions in Comments**					
Street: 1450 Fifth STreet West		Third Party Billing requires written authorization from third party				
City: North Charleston State/F	Province: SC	Zip/Postal Code: Country:				
Report To (Name): Craig Langford		Fax #:				
Telephone #: 843.442.6658		Email Address:				
Project Name/Number: En 197 47	O Blds A	NH62				
Please Provide Results: Fax Emai		The state of the s	S. State Samples Take	n:		
		Options* - Please Ched				
*For TEM Air 3 hours/6 hours, please call ahead to sch an authorization form for this service. Analysis	dule.*There is a premiu completed in accordance	m charge for 3 Hour TEM AHI	Days 5 Days ERA or EPA Level II TAT. Inditions located in the Analysis	10 Days You will be asked to sign tical Price Guide.		
PCM - Air	TEM - Air		TEM- Dust			
☐ NIOSH 7400	AHERA 40 CF	R, Part 763	☐ Microvac - ASTM	D 5755		
☐ w/ OSHA 8hr. TWA	☐ NIOSH 7402		☐ Wipe - ASTM D64	80		
PLM - Bulk (reporting limit)	☐ EPA Level II		☐ Carpet Sonication	(EPA 600/J-93/167)		
☐ PLM EPA 600/R-93/116 (<1%)	☐ ISO 10312		Soil/Rock/Vermiculi	<u>te</u>		
☐ PLM EPA NOB (<1%)	TEM - Bulk			A (0.25% sensitivity)		
Point Count	TEM EPA NOB			B (0.1% sensitivity)		
☐ 400 (<0.25%) ☐ 1000 (<0.1%)	the same of the sa	4 (non-friable-NY)	TEM CARB 435 -			
Point Count w/Gravimetric	Chatfield SOP		TEM CARB 435 -			
☐ 400 (<0.25%) ☐ 1000 (<0.1%)		lysis-EPA 600 sec. 2.5 EPA Protocol (Semi-Quantitative)				
NYS 198.1 (friable in NY)	TEM - Water: EPA		EPA Protocol (Quantitative)			
NYS 198.6 NOB (non-friable-NY)	Fibers >10µm		Other:			
□ NIOSH 9002 (<1%)	All Fiber Sizes					
☐ Check For F	ositive Stop - Cle	early Identify Homoge	enous Group	7		
Samplers Name: Craig Langford		Samplers Signature:	Ciay All			
Sample #	Sample Description	1	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled		
1-PI-01 Main Blog	-Pipe Insul	ation AF	15.3	1/24/20		
1PI 02		wing 32				
1-PI-03 +	+	Wing 3				
E-PE-01 Ext. Boiler		ipe Elbon				
E-PW-01/03 " 11		e was				
E-GI-01/13 1' "		sket (noon)				
E-DI. oiles " "		12 Insulation				
E- PI-0.12 " "	Pipe	Tasulation				
Client Sample # (s):	_		Total # of Samples:	34		
Relinquished (Client):	Date:	ilryho	Time	: 1630		
Received (Lab): Kylinh	Date:	1/27/20	Time	: 8:45AH F/c		
Comments/Special Instructions:			7958 1	748 3839		



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

412000630861

EMSL ANALYTICAL, INC. 376 CROMPTON STREET CHARLOTTE, NC 28273

PHONE: 704-525-2205 FAX: 704-525-2382

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
E-BI-OIL	Ext Boiler Room Boiler Insula	la	
E-PWZ-aliz	Ext Boiler Room 2 - Pipe wi	PAD	
E-BIZ-01/13	Boiler hs	5	
E-Gm2- oilo	3 " Gasket		
E- PIZ-01/0		they both in	
FD 0./13	FIRE DOOR 2rd HOOR MA	1	. 1
	- × 62 ± 0 1		
*Comments/Special	Instructions:		
	,		

Page ____ of ___ pages



North Charleston, SC 29405

EMSL Order: 412000754
Customer ID: WPCE62
Customer PO: EN197470

Project ID:

Phone: (843) 442-6658

Fax: (843) 884-9234

Received Date: 01/24/2020 9:15 AM

Analysis Date: 01/24/2020

Collected Date:

Project: EN197470 Bldg. NH62

Terracon, Inc.

Attention: Craig Langford

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbes	<u>Asbestos</u>		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
PI-01 412000754-0001	Hall - Pipe Insulation	White Fibrous		55% Ca Carbonate 8% Non-fibrous (Other)	2% Amosite 35% Chrysotile	
PI-02 412000754-0002	Hall - Pipe Insulation	Homogeneous White Fibrous Homogeneous		62% Non-fibrous (Other)	8% Amosite 30% Chrysotile	
PI-03-Insulation 412000754-0003	Wing 1 - Pipe Insulation	Gray Non-Fibrous Homogeneous		60% Non-fibrous (Other)	5% Amosite 35% Chrysotile	
PI-03-Wrap 412000754-0003A	Wing 1 - Pipe Insulation	Green Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected	
D-01 412000754-0004	Hall at Mech - Pipe Debris	White Fibrous Homogeneous		70% Non-fibrous (Other)	20% Amosite 10% Chrysotile	
D-02 412000754-0005	Hall Wing 4 - Pipe Debris	White Fibrous Homogeneous		70% Non-fibrous (Other)	20% Amosite 10% Chrysotile	
D-03 412000754-0006	Hall Wing 4 - Pipe Debris	White Fibrous Homogeneous		70% Non-fibrous (Other)	20% Amosite 10% Chrysotile	
D-04 412000754-0007	Hall Wing 3 - Pipe Debris	White Fibrous Homogeneous		65% Non-fibrous (Other)	25% Amosite 10% Chrysotile	
D-05	Hall Wing 3 - Pipe Debris	White Fibrous Homogeneous		65% Non-fibrous (Other)	20% Amosite 15% Chrysotile	
D-06 412000754-0009	Hall Wing 2 - Pipe Debris	Tan Fibrous Homogeneous		70% Non-fibrous (Other)	20% Amosite 10% Chrysotile	

Analyst(s)

Anupriya Tyagi (6) Lacy Searcy (4) Lee Plumley, Laboratory Manager or Other Approved Signatory

Evan L Plumber

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 01/24/2020 11:45:24



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

412000754

EMSL ANALYTICAL, INC. 706 GRALIN STREET KERNERSVILLE, NC 27284

> Phone: 336-992-1025 FAX: 336-992-4175

Company : Terracon	EMSL-Bill to: Same Different If Bill to is Different note instructions in Comments**							
Street: 1450 Fifth Street W			Third Party	Billing requ	ires writter	authorization	from third party	
City: North Charleston	orth Charleston State/Province: SC				Zip/Postal Code: 29405 Country: US			
Report To (Name): Craig Las	ngford		Fax #:					
Telephone #: 843-442-6658			Email Address	s: craiq.la	naford@	terracon.co	m	
Project Name/Number: En	1197 471	Blog	NH62	-				
Please Provide Results:	Fax 🛛 Emai	Purchase Orde	•		State San	nples Taken	: SC	
		around Time (TAT)						
3 Hours 6 Hours *For TEM Air 3 hours/6 hours, pleas	24 Hrs	48 Hrs	3 Days	TEM AHER		5 Days	10 Days	
an authorization form for this	s service. Analysis	completed in accordance	with EMSL's Terms	s and Conditi	ions located	in the Analytica	al Price Guide.	
PCM - Air		TEM - Air		1	FEM- Dus		and the second	
☐ NIOSH 7400		AHERA 40 CF	R, Part 763			ac - ASTM D		
w/ OSHA 8hr. TWA		☐ NIOSH 7402			•	ASTM D6480		
PLM - Bulk (reporting limit)		EPA Level II					EPA 600/J-93/167)	
PLM EPA 600/R-93/116 (<	1%)	☐ ISO 10312				/Vermiculite		
PLM EPA NOB (<1%)		TEM - Bulk					(0.25% sensitivity)	
Point Count	40/)	TEM EPA NOB		\ L			(0.1% sensitivity) (0.1% sensitivity)	
☐ 400 (<0.25%) ☐ 1000 (<0.	1%)	Chatfield SOP	4 (non-friable-NY)	,			(0.01% sensitivity)	
☐ 400 (<0.25%) ☐ 1000 (<0.	196)		lysis-EPA 600 se	c 25			-Quantitative)	
NYS 198.1 (friable in NY)	170)	TEM - Water: EP		C. 2.0		otocol (Quan		
NYS 198.6 NOB (non-friab	IE-NY)		☐ Waste ☐ Drinking Other:					
	ilo-ivi)	All Fiber Sizes						
☐ NIOSH 9002 (<1%)	Check For P	ositive Stop - Cle			ous Gro	un		
	_ OHECK TOTT	OSILIVE OLOP - OIL		omogen	043 010	шр		
Samplers Name:		_	Samplers Sign	nature:				
Sample #		Sample Description	1	'	Volume/A HA#(Date/Time Sampled	
PT-01 P.1	oe Insul	aton 10	" white	1411				
02	1	16"	white it	411				
03	V	y" G	neen Un	01				
D- ol Pipe	e Debizio	Hay e	mec L					
02	1	Hay	Winter 4					
03		Mail	wing 4					
04		1/21/	Wing 3					
66	4	sheu	wing 2					
Client Sample #(s):	1			To	otal # of \$	Samples: 7		
Relinquished (Client):	Pip	Date:	1/23/20			Time:	1605	
Received (Lab): Full N	L	Date:	1/24/20			Time:	9:15AN FK	
Comments/Special Instructi	ons:		***************************************		+	7958 17		



North Charleston, SC 29405

EMSL Order: 412001233
Customer ID: WPCE62
Customer PO: EN197470

Project ID:

Phone: (843) 884-1234

Fax: (843) 884-9234

Received Date: 02/07/2020 10:00 AM

Analysis Date: 02/07/2020 **Collected Date:** 01/24/2020

Project: EN197470

Attention: Andrew Mitroka

Terracon, Inc.

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos			
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
2-1-CM-01	2nd Floor - Green	Green		8% Ca Carbonate	None Detected
	Carpet Mastic	Non-Fibrous		92% Non-fibrous (Other)	
412001233-0001		Homogeneous			

Analyst(s)

Eric Loomis (1)

Lee Plumley, Laboratory Manager or Other Approved Signatory

Evan L Plumber

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 02/07/2020 11:16:06



North Charleston, SC 29405

EMSL Order: 412001643 Customer ID: WPCE62 Customer PO: EN197470

Project ID:

Phone: (843) 884-1234

Fax: (843) 884-9234

Received Date: 02/19/2020 9:00 AM

Analysis Date: 02/19/2020 **Collected Date**: 02/18/2020

Project: EN197470

Attention: Andrew Mitroka

Terracon, Inc.

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		<u>Asbestos</u>			
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
2-E-PI-01	2nd Floor Entrance - White Pipe Insulation	White Non-Fibrous		86% Non-fibrous (Other)	10% Amosite 4% Chrysotile
412001643-0001		Homogeneous			
2-E-PI-02	2nd Floor Entrance - White Pipe Insulation	White/Beige Non-Fibrous		86% Non-fibrous (Other)	10% Amosite 4% Chrysotile
412001643-0002		Homogeneous			
2-E-PI-03	2nd Floor Entrance - White Pipe Insulation	White Fibrous		88% Non-fibrous (Other)	8% Amosite 4% Chrysotile
412001643-0003		Homogeneous -			
2-2-FT-01-Top Mastic	2nd Floor-2nd Wing - Beige Floor Tile with Black Mastic	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
		Brown		20% Ca Carbonate	60/ Charactile
2-2-FT-01-Floor Tile 412001643-0004A	2nd Floor-2nd Wing - Beige Floor Tile with Black Mastic	Non-Fibrous Homogeneous		74% Non-fibrous (Other)	6% Chrysotile
2-2-FT-01-Bottom	2nd Floor-2nd Wing -	Black		94% Non-fibrous (Other)	6% Chrysotile
Mastic	Beige Floor Tile with Black Mastic	Non-Fibrous Homogeneous		54 /6 Non-librous (Other)	070 Ciliyactile
412001643-0004B					
2-2-FT-02-Top Mastic	2nd Floor-2nd Wing - Beige Floor Tile with	Tan Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
412001643-0005	Black Mastic	Homogeneous			
2-2-FT-02-Floor Tile 412001643-0005A	2nd Floor-2nd Wing - Beige Floor Tile with Black Mastic	Brown Non-Fibrous		30% Ca Carbonate 65% Non-fibrous (Other)	5% Chrysotile
		Homogeneous		OOM New Shares (Others)	40/ 01
2-2-FT-02-Bottom Mastic	2nd Floor-2nd Wing - Beige Floor Tile with Black Mastic	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
412001643-0005B					
2-4-FT-01-Top Mastic	2nd Floor-4th Wing - Black-White Floor Tile	Tan Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
412001643-0007	with Mastic	Homogeneous			
2-4-FT-01-Floor Tile	2nd Floor-4th Wing - Black-White Floor Tile	White/Black Non-Fibrous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
412001643-0007A	with Mastic	Homogeneous			
2-4-FT-01-Bottom Mastic	2nd Floor-4th Wing - Black-White Floor Tile with Mastic	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
412001643-0007B		. iomogonoodo			
2-4-FT-02-Top Mastic	2nd Floor-4th Wing - Black-White Floor Tile	Tan Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
412001643-0008	with Mastic	Homogeneous			
2-4-FT-02-Floor Tile	2nd Floor-4th Wing - Black-White Floor Tile	Black Non-Fibrous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
412001643-0008A	with Mastic	Homogeneous			
2-4-FT-02-Bottom Mastic	2nd Floor-4th Wing - Black-White Floor Tile	Tan Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
	with Mastic	Homogeneous			
412001643-0008B					



Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbes		<u>Asbestos</u> % Type	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous		
2-1-FT-01 412001643-0010	2nd Floor-1st Wing - Beige Floor Tile	Gray Non-Fibrous Homogeneous		30% Ca Carbonate 62% Non-fibrous (Other)	8% Chrysotile	
2-1-FT-02	2nd Floor-1st Wing - Beige Floor Tile	Gray Non-Fibrous		30% Ca Carbonate 62% Non-fibrous (Other)	8% Chrysotile	
412001643-0011		Homogeneous				
2-8-FT-01-Top Mastic	2nd Floor-8th Wing - Beige Floor with	Tan Non-Fibrous	1% Synthetic	5% Ca Carbonate 94% Non-fibrous (Other)	None Detected	
2-8-FT-01-Floor Tile	Black Mastic 2nd Floor-8th Wing - Beige Floor with	Homogeneous Gray Non-Fibrous		10% Ca Carbonate 82% Non-fibrous (Other)	8% Chrysotile	
412001643-0013A	Black Mastic	Homogeneous				
2-8-FT-01-Bottom Mastic	2nd Floor-8th Wing - Beige Floor with Black Mastic	Black Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	<1% Chrysotile	
412001643-0013B Possible contamination						
2-8-FT-02-Top Mastic	2nd Floor-8th Wing - Beige Floor with	Tan Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected	
412001643-0014	Black Mastic	Homogeneous				
2-8-FT-02-Floor Tile 412001643-0014A	2nd Floor-8th Wing - Beige Floor with Black Mastic	Gray Non-Fibrous Homogeneous		30% Ca Carbonate 62% Non-fibrous (Other)	8% Chrysotile	
2-8-FT-02-Bottom Mastic	2nd Floor-8th Wing - Beige Floor with	Black Non-Fibrous		100% Non-fibrous (Other)	<1% Chrysotile	
412001643-0014B Possible contamination	Black Mastic	Homogeneous				
2-9-SF-01-Flooring	2nd Floor-9th Wing - Red-Orange Sheet	Gray/Red Fibrous		85% Non-fibrous (Other)	15% Chrysotile	
412001643-0016	Flooring with Beige Mastic	Heterogeneous				
2-9-SF-01-Mastic	2nd Floor-9th Wing - Red-Orange Sheet	Tan Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected	
412001643-0016A	Flooring with Beige Mastic	Homogeneous				
2-9-SF-02-Flooring	2nd Floor-9th Wing -	Orange		85% Non-fibrous (Other)	15% Chrysotile	
412001643-0017	Red-Orange Sheet Flooring with Beige Mastic	Fibrous Homogeneous				
2-9-SF-02-Mastic	2nd Floor-9th Wing - Red-Orange Sheet	Tan Non-Fibrous		100% Non-fibrous (Other)	<1% Chrysotile	
412001643-0017A	Flooring with Beige Mastic	Homogeneous				
Possible contamination	iviastic					
2-EXT-TS-01-Transite	Exterior Wing Connector - White	Gray/Blue Fibrous		85% Non-fibrous (Other)	15% Chrysotile <1% Crocidolite	
412001643-0019	Transite Siding with Black Felt	Heterogeneous			<170 Crocidolite	
2-EXT-TS-01-Felt	Exterior Wing	Black	60% Cellulose	40% Non-fibrous (Other)	None Detected	
412001643-0019A	Connector - White Transite Siding with Black Felt	Fibrous Homogeneous				
2-EXT-TS-02-Transite	Exterior Wing	Gray/White		85% Non-fibrous (Other)	15% Chrysotile	
412001643-0020	Connector - White Transite Siding with Black Felt	Fibrous Homogeneous			<1% Crocidolite	

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbes	stos .	<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
2-EXT-TS-02-Felt 412001643-0020A	Exterior Wing Connector - White Transite Siding with Black Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected	
2-EXT-TS-03-Transite	Exterior Wing Connector - White Transite Siding with	Gray Fibrous Homogeneous		85% Non-fibrous (Other)	15% Chrysotile <1% Crocidolite	
	Black Felt					
2-7-FT-01-Floor Tile 412001643-0022	2nd Floor & 7th Wing (Entrance) - Red Floor Tile with Black	Red/Pink Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected	
	and Yellow Mastic					
2-7-FT-01-Mastic 412001643-0022A	2nd Floor & 7th Wing (Entrance) - Red Floor Tile with Black	Tan/Black Non-Fibrous Homogeneous		5% Ca Carbonate 93% Non-fibrous (Other)	2% Chrysotile	
 2-7-FT-02-Floor Tile	and Yellow Mastic 2nd Floor & 7th Wing	Pink		30% Ca Carbonate	None Detected	
412001643-0023	(Entrance) - Red Floor Tile with Black and Yellow Mastic	Non-Fibrous Homogeneous		70% Non-fibrous (Other)	None Detected	
2-7-FT-02-Mastic	2nd Floor & 7th Wing (Entrance) - Red Floor Tile with Black and Yellow Mastic	Tan/Black Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile	
2-7-FT2-01-Floor Tile	2nd Floor & 7th Wing (End) - Gray Floor Tile with Black Mastic	Gray Non-Fibrous		20% Ca Carbonate 72% Non-fibrous (Other)	8% Chrysotile	
2-7-FT2-01-Mastic	2nd Floor & 7th Wing	Homogeneous Black	1% Cellulose	99% Non-fibrous (Other)	<1% Chrysotile	
412001643-0025A	(End) - Gray Floor Tile with Black Mastic	Non-Fibrous Homogeneous	170 Cellulose	39 % Non-Indicas (Citier)	V170 Onlysome	
Possible contamination						
2-7-FT2-02-Floor Tile	2nd Floor & 7th Wing (End) - Gray Floor Tile with Black Mastic	Gray Non-Fibrous Homogeneous		30% Ca Carbonate 62% Non-fibrous (Other)	8% Chrysotile	
2-7-FT2-02-Mastic	2nd Floor & 7th Wing (End) - Gray Floor Tile	Black Non-Fibrous		100% Non-fibrous (Other)	<1% Chrysotile	
412001643-0026A Possible contamination	with Black Mastic	Homogeneous				
2-H-SC-01	2nd Floor Hallway Walls - Plaster Skim	Various/Beige Non-Fibrous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected	
412001643-0028	Coat	Homogeneous		construction instruction (called)		
2-H-SC-02	2nd Floor Hallway Walls - Plaster Skim	Various/Beige Non-Fibrous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected	
412001643-0029	Coat	Homogeneous		200/ Ca Carterrate	Mana Detector	
2-H-SC-03 412001643-0030	2nd Floor Hallway Walls - Plaster Skim Coat	Various/Beige Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected	
2-H-SC-04	2nd Floor Hallway Walls - Plaster Skim	White Non-Fibrous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected	
412001643-0031	Coat	Homogeneous				
2-H-SC-05	3rd Floor Hallway Walls - Plaster Skim	White Non-Fibrous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected	
412001643-0032 2-H-SC-06	Coat 3rd Floor Hallway	Homogeneous White		10% Ca Carbonate	None Detected	
412001643-0033	Walls - Plaster Skim Coat	Non-Fibrous Homogeneous		90% Non-fibrous (Other)		



Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			<u>Asbestos</u>			
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
2-H-SC-07 412001643-0034	Walls - Plaster Skim Non-Fibrous		<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected	
2-H-PL-01 412001643-0035	2nd/3rd Floor Plaster - Plaster Skim Coat	White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)		
2-H-PL-02 412001643-0036	2nd/3rd Floor Plaster - Plaster Skim Coat	Gray Non-Fibrous Homogeneous		20% Quartz 8% Ca Carbonate 72% Non-fibrous (Other)		
2-H-PL-03 412001643-0037	2nd/3rd Floor Plaster - Plaster Skim Coat	Gray Non-Fibrous Homogeneous		None Detected		
2-H-PL-04 412001643-0038	2nd/3rd Floor Plaster - Plaster Skim Coat	Gray Non-Fibrous Homogeneous	30% Quartz 8% Ca Carbonate 62% Non-fibrous (Other)		None Detected	
2-H-PL-05 412001643-0039	2nd/3rd Floor Plaster - Plaster Skim Coat	Gray Non-Fibrous Homogeneous	25% Quartz 10% Ca Carbonate 65% Non-fibrous (Other)		None Detected	
2-H-PL-06 412001643-0040	2nd/3rd Floor Plaster - Plaster Skim Coat	Gray Non-Fibrous Homogeneous	30% Quartz 8% Ca Carbonate 62% Non-fibrous (Other)		None Detected	
2-H-PL-07 412001643-0041	2nd/3rd Floor Plaster - Plaster Skim Coat	Gray Non-Fibrous Homogeneous	30% Quartz 8% Ca Carbonate 62% Non-fibrous (Other)		None Detected	
2-H-PL-08 412001643-0042	2nd/3rd Floor Plaster - Plaster Skim Coat	Gray Non-Fibrous Homogeneous	30% Quartz 8% Ca Carbonate 62% Non-fibrous (Other)		None Detected	
2-H-PL-09 412001643-0043	2nd/3rd Floor Plaster - Plaster Skim Coat	Gray Non-Fibrous Homogeneous		None Detected		

Analyst(s)

Anupriya Tyagi (24) Eric Loomis (32) Lee Plumley, Laboratory Manager or Other Approved Signatory

Evan L Plumber

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312



Project ID:

 Attention:
 Andrew Mitroka
 Phone:
 (843) 884-1234

 Terracon, Inc.
 Fax:
 (843) 884-9234

1450 Fifth Street West Received Date: 02/19/2020 9:00 AM

North Charleston, SC 29405

Analysis Date: 02/19/2020

Collected Date: 02/18/2020

Project: EN197470

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
2-2-FT-03-Top Mastic 412001643-0006	2nd Floor-2nd Wing - Beige Floor Tile with Black Mastic	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
2-2-FT-03-Floor Tile 412001643-0006A	2nd Floor-2nd Wing - Beige Floor Tile with Black Mastic				
Positive S	top (Not Analyzed)				
2-2-FT-03-Bottom Mastic 412001643-0006B	2nd Floor-2nd Wing - Beige Floor Tile with Black Mastic				
Positive S	top (Not Analyzed)				
2-4-FT-03-Top Mastic 412001643-0009	2nd Floor-4th Wing - Black-White Floor Tile with Mastic	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
2-4-FT-03-Floor Tile 412001643-0009A	2nd Floor-4th Wing - Black-White Floor Tile with Mastic	White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
2-4-FT-03-Bottom Mastic 412001643-0009B	2nd Floor-4th Wing - Black-White Floor Tile with Mastic	Gray Non-Fibrous Homogeneous	99.50 Other	None	0.50% Chrysotile
2-1-FT-03 412001643-0012	2nd Floor-1st Wing - Beige Floor Tile				
Positive S	top (Not Analyzed)				
2-8-FT-03-Top Mastic 412001643-0015	2nd Floor-8th Wing - Beige Floor with Black Mastic	Tan Non-Fibrous Homogeneous	99.41 Other	None	0.59% Chrysotile
2-8-FT-03-Floor Tile 412001643-0015A	2nd Floor-8th Wing - Beige Floor with Black Mastic				
Positive S	top (Not Analyzed)				
2-8-FT-03-Bottom Mastic 412001643-0015B	2nd Floor-8th Wing - Beige Floor with Black Mastic	Black Non-Fibrous Homogeneous	99.25 Other	None	0.75% Chrysotile
2-9-SF-03-Flooring 412001643-0018	2nd Floor-9th Wing - Red-Orange Sheet Flooring with Beige Mastic				
Positive S	top (Not Analyzed)				

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC



Project ID:

 Attention:
 Andrew Mitroka
 Phone:
 (843) 884-1234

 Terracon, Inc.
 Fax:
 (843) 884-9234

1450 Fifth Street West Received Date: 02/19/2020 9:00 AM

North Charleston, SC 29405

Analysis Date: 02/19/2020

Collected Date: 02/18/2020

Project: EN197470

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
2-9-SF-03-Mastic 412001643-0018A	2nd Floor-9th Wing - Red-Orange Sheet Flooring with Beige Mastic	Tan Non-Fibrous Homogeneous	99.21 Other	None	0.79% Chrysotile
2-EXT-TS-03-Felt 412001643-0021A	Exterior Wing Connector - White Transite Siding with Black Felt	Black Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
2-7-FT-03-Floor Tile 412001643-0024A	2nd Floor & 7th Wing (Entrance) - Red Floor Tile with Black and Yellow Mastic	Gray Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
2-7-FT-03-Mastic 412001643-0024B Positive St	2nd Floor & 7th Wing (Entrance) - Red Floor Tile with Black and Yellow Mastic op (Not Analyzed)				
2-7-FT2-03-Floor Tile 412001643-0027	2nd Floor & 7th Wing (End) - Gray Floor Tile with Black Mastic				
Positive St	op (Not Analyzed)				
2-7-FT2-03-Mastic 412001643-0027A	2nd Floor & 7th Wing (End) - Gray Floor Tile with Black Mastic	Black Non-Fibrous Homogeneous	99.56 Other	None	0.44% Chrysotile

Analyst(s)	Evan L Plumley
Derrick Young (10)	Lee Plumley, Laboratory Manager
	or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC



EMSL Analytical, Inc.

10801 Southern Loop Blvd, Pineville, NC 28134

(704) 525-2205 / (704) 525-2382

http://www.EMSL.com charlottelab@emsl.com CustomerPO: ProjectID:

412000780 WPCE62 EN197470

EMSL Order:

CustomerID:

Attn: Craig Langford Terracon, Inc. 1450 Fifth Street West North Charleston, SC 29405 Phone: (843) 884-1234 Fax: (843) 884-9234 Received: 01/27/20 8:45 AM Collected: 1/24/2020

Project: EN197470 Bldg. NH62

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Weight	Lead Concentration
Pb-01	412000780-000	1 1/24/2020	1/27/2020	0.2438 g	1.0 % wt
	Site: Interior Wa	all 2nd Floor			
Pb-02	412000780-000	2 1/24/2020	1/27/2020	0.2828 g	1.8 % wt
	Site: Interior Wa	all 2nd Floor			
Pb-03	412000780-000	3 1/24/2020	1/27/2020	0.3118 g	1.0 % wt
	Site: Interior Wa	all 2nd Floor			
Pb-04	412000780-000	4 1/24/2020	1/27/2020	0.2585 g	0.26 % wt
	Site: Door Fram	es 2nd Floor			
Pb-05	412000780-000	5 1/24/2020	1/27/2020	0.2872 g	0.37 % wt
	Site: Door Fram	es 2nd Floor			
Pb-06	412000780-000	6 1/24/2020	1/27/2020	0.2449 g	0.22 % wt
	Site: Door Fram	es 2nd Floor			
Pb-07	412000780-000	7 1/24/2020	1/27/2020	0.2966 g	0.16 % wt
	Site: Windows 2	2nd Floor			
Pb-08	412000780-000	8 1/24/2020	1/27/2020	0.3445 g	0.19 % wt
	Site: Windows 2	2nd Floor			
Pb-09	412000780-000	9 1/24/2020	1/27/2020	0.3271 g	0.92 % wt
	Site: Windows 2	2nd Floor			
Pb-10	412000780-001	0 1/24/2020	1/27/2020	0.3312 g	<0.0080 % wt
	Site: Stairwell C	omp.			
Pb-11	412000780-001	1 1/24/2020	1/27/2020	0.2787 g	12 % wt
	Site: Stairwell C	omp.			
Pb-12	412000780-001	2 1/24/2020	1/27/2020	0.2539 g	0.62 % wt
	Site: Stairwell C	omp.			

Kyle Collins, Technical Manager or other approved signatory

Kell M Collins

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. When the information supplied by the customer can affect the validity of the results, it will be noted on the report. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Pineville, NC AIHA-LAP, LLC - ELLAP 192283

Initial report from 01/27/2020 16:40:56



Lead (Pb) Chain of Custody EMSL Order ID (Lab Use Only):

412000780	

EMSL ANALYTICAL, INC. 376 CROMPTON ST **UNIT 71** CHARLOTTTE, NC 28273 704-525-2205

					7		
Company : Terracon					Same Different in Co		
Street: 1450 Fifth Street West			Third Party Billing re	equires wi	ritten authorizatio	on from th	nird party
City: North Charleston	State/Province: SC	2	Zip/Postal Code:		Country	:	
Report To (Name): Craig Langford		F	Fax #:				
Telephone #: 843.442.6658			Email Address:		180		
Project Name/Number: Ew 197 4	70 Blog	NHG	2				
Please Provide Results: Fax Em				U.S. Sta	te Samples Ta	ken:	
	naround Time (TAT) (Marie Contract of the Party of		the state of the state of the state of	to outilipico it	arconn.	
☐ 3 Hours ☐ 6 Hours ☐ 24 Ho			Days 4 D		☐ 5 Days	ТП	10 Days
	in accordance with EMSL's			-			
Matrix	Method		Instrumen	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	Reporting	Limit	Check
Chips ☐ mg/cm² ☑ % by wt.	SW846-7000B/7420 or AOAC 974.02	0	Flame Atomic Abso	orption	0.01%		Ø
Air	NIOSH 7082		Flame Atomic Abso	orption	4 µg/filte	er	П
	NIOSH 7105		Graphite Furnace	e AA	0.03 µg/fi		
	NIOSH 7300 modifie	ed	ICP-AES		0.5 µg/fil	ter	
Wipe* ☐ ASTM ☐ non ASTM	SW846-7000B/7420	0	Flame Atomic Abso	orption	10 µg/wij	ре	
*if no box is checked, non-ASTM Wipe is assumed	SW846-6010B or C		ICP-AES		0.5 µg/wi	ре	
TCLP	SW846-1311/7420/SM 3	3111B	Flame Atomic Absorption		0.4 mg/L (ppm)		
	SW846-6010B or C)	ICP-AES		0.1 mg/L (p	pm)	
Soil	SW846-7420		Flame Atomic Absorption		40 mg/kg (ppm)		
	SW846-7421		Graphite Furnace AA		0.3 mg/kg (ppm)		
	SW86-6010B or C SM3111B or		ICP-AES		1 mg/kg (p	pm)	
Wastewater	SW846-7000B/7420	0	Flame Atomic Abso	orption	0.4 mg/L (p		
	EPA 200.9		Graphite Furnace AA		0.003 mg/L (ppm)		
	SW846-6010B or C	;	ICP-AES		1 mg/kg (ppm)		
Drinking Water	EPA 200.9		Graphite Furnace AA		0.003 mg/L (ppm)		
Other:		Prese	ervation Method ((Water):	In	1	
Name of Sampler: Craig Langford		Signa	ture of Sampler:	Cu	addr		
	ation		Volume/A	PROPERTY AND INCIDENT	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	Time S	ampled
Phol Interior W	All 2 har Flo	6P			16	24/20	0
Ph-02							
Ph-03	+						
Pb-04 Door Fran	es 2ng floc	P					
Pb-05	<u> </u>	/4					
Pb-06	4						
Client Sample #'s Total # of Samples: /							
Relinquished (Client):	Date:	1/24	1-	Time:	164		
Received (Lab): Kyk Norm		1/27	1			, el	
Comments:	Date:	1141	Iω	Time:	CF. 0	An Flx	
				7	958 1748	3830	
				•	130 1.10		



LEAD (Pb) CHAIN OF CUSTODY EMSL ORDER ID (Lab Use Only):

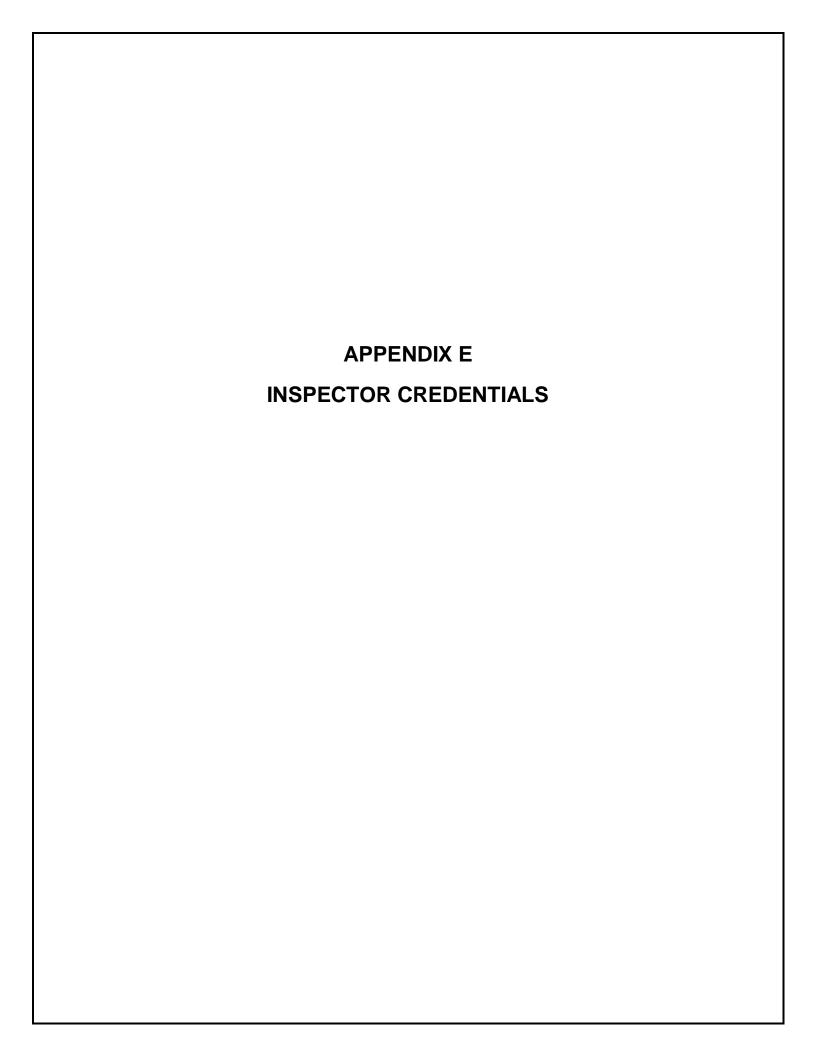
412000780

EMSL ANALYTICAL, INC. 376 CROMPTON ST UNIT 71 CHARLOTTTE, NC 28273 704-525-2205

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location		Volume/Area	Date/Time Sampled
Ph-07	Windows	2rd Floor		1/24/20
Ph-08	}			
Ph-09	\			
Ph-10	Stairnell Comp.			
Pb-12				
Pb-12	1			
			1	
	(2)			
	-			
Comments/Sp	pecial Instructions:	e e		

Page _____ of ____ pages





CRAIG C. LANGFORD

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL – ASBESTO SECTION

CONSULTANT/PROJECT DESIGN – PD-00032_EXP 07/10/20 CONSULTANT/BUILDING INSPECTOR ASB-22775_EXP 07/09/20 AIR SAMPLER/MONITOR ASB-22599_EXP 07/08/20 SUPERVISOR SA-03094 EXP 07/08/20



Terracon Consultants, Inc. 1450 Fifth Street, West North Charleston, South Carolina 29405 P (843) 884 1234 F (843) 884 9234 terracon.com

Environmental

Facilities

Geotechnical

Materials

SCDHEC ISSUED Asbestos ID Card

Andrew Mitroka



Expiration Date: SUPERAHERA SA-03255 08/15/20 CONSULTBI BI-01871 07/16/20 AIRSAMPLER AS-00605 08/29/20